

BEFORE THE
PUBLIC SERVICE COMMISSION OF
SOUTH CAROLINA
DOCKET NO. 2017-3-E

In the Matter of
Annual Review of Base Rates
for Fuel Costs for
Duke Energy Carolinas, LLC

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SETTLEMENT TESTIMONY OF
KIMBERLY D. MCGEE FOR
DUKE ENERGY CAROLINAS, LLC

1 **Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS AND POSITION.**

2 A. My name is Kimberly D. McGee, and my business address is 550 South Tryon
3 Street, Charlotte, North Carolina.

4 **Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?**

5 A. I am a Rates Manager supporting both Duke Energy Carolinas, LLC (“DEC” or the
6 “Company”) and Duke Energy Progress, LLC (“DEP”) (collectively, the
7 “Companies”).

8 **Q. DID YOU PREVIOUSLY FILE DIRECT TESTIMONY IN SUPPORT OF**
9 **DEP’S APPLICATION IN THIS DOCKET?**

10 A. Yes, I did.

11 **Q. WHAT IS THE PURPOSE OF YOUR SETTLEMENT TESTIMONY IN**
12 **THIS PROCEEDING?**

13 A. The purpose of my testimony is to support the Settlement Agreement reached
14 between DEC, the South Carolina Office of Regulatory Staff (“ORS”), and the
15 South Carolina Energy Users Committee (“SCEUC”) (collectively referred to as
16 the “Parties”), and to agree to the billing factors that are included in the
17 Settlement Agreement and the associated impact on customer rates.

18 **Q. ARE YOU INCLUDING SETTLEMENT EXHIBITS?**

19 A. Yes, I am including settlement exhibits, which are the same exhibits included in
20 my direct testimony, but revised to incorporate all adjustments proposed by the
21 ORS and agreed to by the Company.

22 **Q. DO YOU AGREE WITH THE FUEL FACTORS AND THE DERP**
23 **MONTHLY CHARGES AS COMPUTED AND FILED IN THE DIRECT**

**TESTIMONY OF THE ORS WITNESSES MS. HIPPI, MS. SMITH AND
MR. MORGAN?**

A. Yes, I agree with the fuel factors and the DERP incremental monthly charge as filed in the direct testimony of the ORS, which incorporate all adjustments proposed by the ORS and accepted by the Company, as set forth in the following table. These rates are shown excluding gross receipts tax and regulatory fee. The rates actually billed to customers will be adjusted accordingly to include such amounts.

Description	Customer Class		
	Cents / kWh		
	Residential	General/Lighting	Industrial
Total Fuel Cost Factor	1.8769	1.8639	1.8161
Distributed Energy Resource Program Incremental Cost per Account			
	Residential	General Service	Industrial
Total DERP Annual Charge - excluding GRT	\$ 0.73	\$ 22.17	\$ 1,090.49
Total DERP Monthly Charge - excluding GRT	\$ 0.06	\$ 1.85	\$ 90.87

Q. BASED ON THE RATES STATED IN THE SETTLEMENT AGREEMENT, WHAT WILL BE THE IMPACT ON THE CUSTOMER'S MONTHLY BILL?

A. The impact of the proposed settlement rate increase for an average residential customer using 1000 kWh per month is an increase of \$1.28, or 1.2%. Impacts for General and industrial customers vary by customer, but are rate increases of approximately 2.8% and 4.0%, respectively.

1 **Q. IN YOUR VIEW, IS THE SETTLEMENT REACHED BY THE PARTIES IN**
2 **THE PUBLIC INTEREST?**

3 A. Yes, the Parties believe the Settlement Agreement represents a fair, reasonable and
4 full resolution of all issues in this proceeding. Further, the Parties believe the
5 Settlement Agreement is in the public interest and should be accepted by the
6 Commission as a fair and reasonable resolution of the issues in this proceeding.

7 **Q. DOES THIS CONCLUDE YOUR PRE-FILED SETTLEMENT**
8 **TESTIMONY?**

9 A. Yes.

McGee Settlement Exhibit 1
DOCKET NO 2017-3-E

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E
CALCULATION OF TOTAL FUEL COMPONENT
BILLING PERIOD OCTOBER 1, 2017 TO SEPTEMBER 30, 2018

			Customer Class		
			Cents / kWh		
Line No.	Description	Reference	Residential	General/Lighting	Industrial
Base Fuel Costs					
1	Base Fuel Cost Component Under / (Over) at September 2017	Exhibit 2 Page 2	0.0824	0.0824	0.0824
2	Base Fuel Cost Component Projected Billing Period	Exhibit 3	1.6446	1.6446	1.6446
3	Total Base Fuel Cost Component		1.7270	1.7270	1.7270
Capacity Related Costs					
			Cents / kWh		
4	PURPA Purchased Power Component Under / (Over) at September 2017	Exhibit 6 Page 1, 2, 3	(0.0098)	0.0016	0.0003
5	Capacity Related Cost Component Projected Billing Period	Exhibit 7	0.1281	0.0943	0.0620
6	Total Capacity Related Cost Component	Line 4 + 5	0.1183	0.0959	0.0623
Distributed Energy Resource Progam Avoided Costs					
			Cents / kWh		
7	DERP Avoided Costs Component Under / (Over) at September 2017	Exhibit 12 Page 1,2,3	(0.0015)	(0.0005)	0.0001
8	DERP Avoided Costs Component Projected Billing Period	Exhibit 13	0.0000	0.0000	0.0000
9	Total DERP Avoided Costs Component	Line 7 + 8	(0.0015)	(0.0005)	0.0001
Environmental Costs					
			Cents / kWh		
10	Environmental Component Under / (Over) at September 2017	Exhibit 4 Page 1, 2, 3	(0.0166)	0.0049	0.0027
11	Environmental Component Projected Billing Period	Exhibit 5	0.0497	0.0366	0.0240
12	Total Environmental Component	Line 10 + 11	0.0331	0.0415	0.0267
13	Total Fuel Cost Factor	Sum Line 3 + Line 6 + Line 9 + Line 12	1.8769	1.8639	1.8161

Distributed Energy Resource Program Incremental Cost per Account			Residential	General Service	Industrial
DERP Incremental Under / (Over) at September 2017					
14	Annual Charge / (Credit)	Exhibit 10	\$ (6.38)	\$ (9.29)	\$ (484.94)
15	Monthly Charge / (Credit)	Exhibit 10	\$ (0.53)	\$ (0.77)	\$ (40.41)
DERP Incremental Projected Billing Period					
16	Annual Charge	Exhibit 11	\$ 7.12	\$ 31.46	\$ 1,575.43
17	Monthly Charge	Exhibit 11	\$ 0.59	\$ 2.62	\$ 131.29
18	Total DERP Annual Charge - excluding GRT	Line 14 + Line 16	\$ 0.73	\$ 22.17	\$ 1,090.49
19	Total DERP Monthly Charge - excluding GRT	Line 15 + Line 17	\$ 0.06	\$ 1.85	\$ 90.87
20	Total DERP Annual Charge per account CAP		\$ 12.00	\$ 120.00	\$ 1,200.00
21	Total DERP Annual Charge - including GRT	Line 18 / (1-Tax Rate)	\$ 0.73	\$ 22.27	\$ 1,095.38
22	Total DERP Monthly Charge - including GRT	Line 19 / (1-Tax Rate)	\$ 0.06	\$ 1.86	\$ 91.28

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E
CALCULATION OF BASE FUEL (OVER) / UNDER RECOVERY
ACTUAL COSTS AND REVENUES JUNE 2016 - MAY 2017

Line No.	Description	Reference	Actual June 2016	Actual July 2016	Actual August 2016	Actual September 2016	Actual October 2016	Actual November 2016
1	Coal		\$ 97,119,139	\$ 114,205,895	\$ 112,064,177	\$ 81,737,644	\$ 54,970,235	\$ 42,179,478
2	Gas		21,983,228	29,891,840	29,555,707	29,458,131	19,658,596	28,278,915
3	Nuclear Fuel		23,234,853	24,005,275	23,949,442	27,356,718	30,196,800	26,017,979
4	Purchased Power		22,308,304	32,850,720	27,807,518	29,517,705	19,367,798	25,680,129
5	Fuel Expense Recovered Through Intersystem Sales		(1,112,785)	(2,540,954)	(3,838,340)	(3,141,707)	(7,304,808)	(2,764,221)
6	Total Fuel Costs	Sum Lines 1 through 6	\$ 163,532,739	\$ 198,412,775	\$ 189,538,504	\$ 164,928,491	\$ 116,888,621	\$ 119,392,280
7	Eliminate Avoided Fuel Benefit of SC NEM		16,099	19,470	27,878	36,471	37,743	47,069
8	Adjusted System Fuel costs	Line 6 + 7	\$ 163,548,838	\$ 198,432,245	\$ 189,566,382	\$ 164,964,962	\$ 116,926,364	\$ 119,439,349
9	Total System KWH Sales		7,455,726,890	8,307,694,616	8,677,344,922	8,552,471,343	6,764,677,741	6,211,342,842
10	Eliminate NEM Solar Generation kwhs		398,685	482,160	690,410	903,241	1,165,336	1,453,248
11	Adjusted Projected System kwh Sales	Line 9 + 10	7,456,125,575	8,308,176,776	8,678,035,332	8,553,374,584	6,765,843,077	6,212,796,090
12	System cost ¢/kwh	(Line 8 *100) / (Line 9)	2.1935	2.3884	2.1844	1.9287	1.7282	1.9225
13	Actual/Projected SC Retail Sales kWh (w/solar)		1,887,390,782	2,087,423,823	2,120,919,285	2,102,065,009	1,732,875,422	1,592,728,183
14	Eliminate the NEM impact of Solar Generation kWhs		398,685	482,160	690,410	903,241	1,165,336	1,453,248
15	Adjusted Actual/Projected SC Retail Sales kWh (w/o solar)	Line 13 + 14	1,887,789,467	2,087,905,983	2,121,609,695	2,102,968,250	1,734,040,758	1,594,181,431
16	SC Base Fuel Costs	Line 12 * Line 15 /100	\$ 41,408,339	\$ 49,867,484	\$ 46,345,268	\$ 40,558,972	\$ 29,967,451	\$ 30,647,714
17	Assign 100% of avoided fuel benefit of SC NEM	Line 7	(16,099)	(19,470)	(27,878)	(36,471)	(37,743)	(47,069)
18	Adjusted SC Base Fuel Costs	Line 16 + 17	\$ 41,392,240	\$ 49,848,014	\$ 46,317,390	\$ 40,522,502	\$ 29,929,708	\$ 30,600,645
19	Fuel Costs Collected - non capacity revenue		\$ 40,478,870	\$ 44,768,979	\$ 45,487,356	\$ 45,082,988	\$ 27,512,863	\$ 25,287,745
20	Fuel Benefit given in SC NEM Incentive		(6,417)	(7,760)	(11,105)	(14,551)	(11,318)	(14,161)
21	Adjusted Fuel Costs Collected	Line 19 + 20	40,472,453	44,761,219	45,476,251	45,068,437	27,501,545	25,273,584
22	(Over)/Under Current Month	Line 21-Line 18	\$ 919,787	\$ 5,086,795	\$ 841,139	\$ (4,545,936)	\$ 2,428,163	\$ 5,327,061
23	(Over)/Under Cumulative Balance May 2016	Prior Year Annual Filing	\$ (35,017,066)	\$ -	\$ -	\$ -	\$ -	\$ -
24	Interest		-	-	-	-	-	-
25	Adjustment		-	-	-	-	-	-
26	(Over)/Under Cumulative Balance	Prior month Line 26 + Line 22 + Sum (Current month Lines 24-25)	\$ (34,097,279)	\$ (29,010,484)	\$ (28,169,345)	\$ (32,715,281)	\$ (30,287,118)	\$ (24,960,057)

Line No.	Description	Reference	Actual December 2016	Actual January 2017	Actual February 2017	Actual March 2017	Actual April 2017	Actual May 2017	Twelve Months Ended May 2017
27	Coal		\$ 81,816,624	\$ 73,916,695	\$ 39,741,073	\$ 66,903,778	\$ 63,519,454	\$ 65,504,091	893,678,283
28	Gas		24,344,196	26,601,029	25,212,264	24,941,259	15,813,789	23,914,646	299,653,599
29	Nuclear Fuel		29,926,043	29,942,141	24,802,206	28,164,486	23,003,957	26,827,372	317,427,273
30	Purchased Power		16,341,877	21,849,135	24,343,437	19,658,171	18,817,130	16,880,556	275,422,479
31	Fuel Expense Recovered Through Intersystem Sales		(7,365,802)	(4,175,582)	(1,096,332)	(10,543,257)	(8,852,934)	(4,939,818)	(57,676,540)
32	Total Fuel Costs	Sum Lines 27 through 31	\$ 145,062,938	\$ 148,133,418	\$ 113,002,648	\$ 129,124,437	\$ 112,301,396	\$ 128,186,846	1,728,505,094
33	Eliminate Avoided Fuel Benefit of SC NEM		50,957	63,251	71,416	80,635	95,366	102,715	649,070
34	Adjusted System Fuel costs	Line 32 + Line 33	\$ 145,113,895	\$ 148,196,669	\$ 113,074,064	\$ 129,205,072	\$ 112,396,762	\$ 128,289,561	\$ 1,729,154,164
35	Total System KWH Sales (w/solar)		6,894,316,081	7,535,755,155	6,552,001,704	6,356,251,191	7,138,821,692	5,896,556,967	86,342,961,144
36	Eliminate NEM Solar Generation kwhs		1,573,308	1,952,860	2,204,928	2,489,592	2,944,428	3,171,324	19,429,520
37	Adjusted Projected System kwh Sales (w/o solar)	Line 35 + Line 36	6,895,889,389	7,537,708,015	6,554,206,632	6,358,740,783	7,141,766,120	5,899,728,291	86,362,390,664
38	System cost ¢/kwh	Line 34 / Line 37 * 100	2.1044	1.9661	1.7252	2.0319	1.5738	2.1745	
39	Actual/Projected SC Retail Sales kWh (w/solar)		1,681,764,571	1,778,680,433	1,639,883,558	1,558,321,115	1,828,831,145	1,438,093,127	21,448,976,453
40	Eliminate the NEM impact of Solar Generation kWhs		1,573,308	1,952,860	2,204,928	2,489,592	2,944,428	3,171,324	19,429,520
41	Adjusted Actual/Projected SC Retail Sales kWh (w/o solar)	Line 39 + Line 40	1,683,337,879	1,780,633,293	1,642,088,486	1,560,810,707	1,831,775,573	1,441,264,451	21,468,405,973
42	SC Base Fuel Costs	Line 38 * Line 41 /100	\$ 35,423,381	\$ 35,008,510	\$ 28,329,534	\$ 31,714,559	\$ 28,828,393	\$ 31,340,288	429,439,892
43	Assign 100% of avoided fuel benefit of SC NEM	Line 33	(50,957)	(63,251)	(71,416)	(80,635)	(95,366)	(102,715)	(649,070)
44	Adjusted SC Base Fuel Costs	Line 42 + Line 43	\$ 35,372,424	\$ 34,945,259	\$ 28,258,118	\$ 31,633,924	\$ 28,733,027	\$ 31,237,573	428,790,823
45	Fuel Costs Collected - non capacity revenue		0 \$ 26,701,376	\$ 28,240,109	\$ 26,036,431	\$ 24,741,464	\$ 29,036,352	\$ 22,832,604	386,207,137
46	Fuel Benefit given in SC NEM Incentive		0 (15,311)	(18,966)	(21,403)	(24,192)	(28,621)	(30,808)	(204,613)
47	Adjusted Fuel Costs Collected	Line 45 + Line 46	\$ 26,686,065	\$ 28,221,143	\$ 26,015,028	\$ 24,717,272	\$ 29,007,731	\$ 22,801,796	386,002,524
48	(Over)/Under Current Month	Line 44 - Line 47	\$ 8,686,359	\$ 6,724,117	\$ 2,243,091	\$ 6,916,654	\$ (274,705)	\$ 8,435,777	\$ 42,788,299
49	Adjustment	Economic purchase adjustment	-	-	-	-	-	-	(100,880)
50	(Over)/Under Cumulative Balance	Prior month Line 50 + Sum (Current month Lines 48-49)	\$ (16,273,698)	\$ (9,549,582)	\$ (7,306,491)	\$ (389,837)	\$ (664,542)	\$ 7,771,235	7,670,353

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E
CALCULATION OF BASE FUEL (OVER) / UNDER RECOVERY
ESTIMATED COSTS AND REVENUES JUNE 2017 - SEPTEMBER 2017

Line No.	Description	Reference	<i>Estimated June 2017</i>	<i>Estimated July 2017</i>	<i>Estimated August 2017</i>	<i>Estimated September 2017</i>
51	Coal		\$ 71,864,591	\$ 90,316,730	\$ 85,565,147	\$ 65,111,605
52	Gas		20,615,133	22,390,595	22,690,956	19,482,205
53	Nuclear Fuel		25,712,385	26,457,619	26,165,886	24,068,628
54	Purchased Power		11,687,683	13,295,996	12,831,634	13,516,641
55	Fuel Expense Recovered Through Intersystem Sales		(360,719)	(1,404,021)	(976,988)	(2,406,085)
56	Total Fuel Costs	Sum of Lines 51-55	\$ 129,519,073	\$ 151,056,918	\$ 146,276,635	\$ 119,772,995
57	Eliminate Avoided Fuel Benefit of SC NEM		125,218	135,791	144,689	153,588
58	Adjusted System Fuel costs	Line 56 + Line 57	\$ 129,644,291	\$ 151,192,708	\$ 146,421,324	\$ 119,926,582
59	Total Projected System KWH Sales (w/solar)		7,383,785,715	8,180,077,468	8,426,978,637	7,812,040,037
60	Eliminate NEM Solar Generation kwhs		3,865,972	4,192,397	4,467,138	4,741,880
61	Adjusted Projected System kwh Sales(w/o solar)	Line 59 and 60	7,387,651,686	8,184,269,865	8,431,445,776	7,816,781,917
62	System cost ¢/kwh	Line 58 / Line 61 * 100	1.7549	1.8474	1.7366	1.5342
63	Projected SC Retail Sales kWh (w/solar)		1,833,008,015	1,979,028,011	2,069,753,324	1,953,133,647
64	Assign 100% of avoided fuel benefit of SC NEM		3,865,972	4,192,397	4,467,138	4,741,880
65	Projected SC Retail Sales kWh (w/o solar)	Line 63 and 64	1,836,873,986	1,983,220,408	2,074,220,463	1,957,875,527
66	SC Base Fuel Costs	Line 65 * Line 62 / 100	\$ 32,234,902	\$ 36,637,167	\$ 36,021,118	\$ 30,038,106
67	Assign 100% of avoided fuel benefit of SC NEM		(125,218)	(135,791)	(144,689)	(153,588)
68	Adjusted SC Base Fuel Costs	Line 66 + Line 67	\$ 32,109,684	\$ 36,501,376	\$ 35,876,429	\$ 29,884,518
69	Fuel Costs Collected - non capacity revenue	Line 63 * current rate	\$ 29,102,668	\$ 31,421,028	\$ 32,861,474	\$ 31,009,903
70	Fuel Benefit given in SC NEM Incentive		(37,844)	(41,181)	(44,024)	(46,866)
71	Adjusted Fuel Costs Collected	Line 69 + Line 70	\$ 29,064,824	\$ 31,379,847	\$ 32,817,450	\$ 30,963,037
72	(Over)/Under Current Month	Line 68 - Line 71	\$ 3,044,859	\$ 5,121,529	\$ 3,058,979	\$ (1,078,519)
73	Adjustment		-	-	-	-
74	(Over)/Under Cumulative Balance	Prior month bal + current mo. Lines 72 and 73	\$ 10,715,212	\$ 15,836,741	\$ 18,895,720	\$ 17,817,201
75	Projected SC Retail Sales kwhs					21,619,679,765
76	SC Base Fuel Rate (cents / kWh)	Line 74 / Line 75 * 100				0.0824

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E
PROJECTED BILLING PERIOD BASE FUEL COSTS
FOR THE 12 MONTHS OCTOBER 1, 2017 TO SEPTEMBER 30, 2018

Line No.	Description	Reference	October 2017	November 2017	December 2017	January 2018	February 2018	March 2018
1	Coal		\$ 41,264,530	\$ 39,697,206	\$ 50,999,988	\$ 90,074,558	\$ 60,155,601	\$ 52,513,927
2	Gas		17,633,708	30,278,703	31,236,939	23,603,246	27,346,088	27,385,073
3	Nuclear Fuel		22,574,335	22,458,364	26,772,347	26,869,408	24,167,188	24,018,244
4	Purchased Power		14,725,226	12,853,978	12,110,638	17,068,842	10,267,761	13,960,908
5	Fuel Expense Recovered Through Intersystem Sales		(999,201)	(2,119,910)	(4,272,254)	(13,547,877)	(4,612,739)	(6,360,033)
6	Total Fuel Costs	Sum Lines 1 through 5	\$ 95,198,597	\$ 103,168,341	\$ 116,847,659	\$ 144,068,178	\$ 117,323,899	\$ 111,518,119
7	Eliminate Avoided Fuel Benefit of SC NEM		131,939	139,706	147,474	147,082	163,009	172,224
8	Adjusted System Fuel costs	Line 6 + Line 7	\$ 95,330,536	\$ 103,308,048	\$ 116,995,133	\$ 144,215,260	\$ 117,486,908	\$ 111,690,343
9	Total Projected System Sales kwhs (w/solar)		6,398,225,896	6,307,340,529	7,085,330,923	8,005,281,104	7,575,678,258	6,838,011,278
10	Eliminate NEM Solar Generation kwhs		4,076,067	4,316,040	4,556,013	4,543,918	5,035,959	5,320,623
11	Adjusted Projected System kwh Sales(w/o solar)	Line 9 + Line 10	6,402,301,963	6,311,656,569	7,089,886,936	8,009,825,021	7,580,714,216	6,843,331,900
12	System Cost per kwh (¢/kwh)	Line 8 / Line 11 * 100	1.4890	1.6368	1.6502	1.8005	1.5498	1.6321
13	Adjusted Projected SC Retail Sales kwhs(w/o solar)		1,643,778,252	1,614,883,993	1,741,450,923	1,892,915,424	1,865,385,221	1,718,124,529
14	SC Base Fuel Costs	Line 13 * Line 12 / 100	\$ 24,475,925	\$ 26,432,128	\$ 28,736,887	\$ 34,081,555	\$ 28,909,986	\$ 28,041,592
15	Assign 100% of Avoided Fuel Benefit of SC NEM ^(Note 1)		(67,513)	(71,447)	(75,382)	(75,095)	(83,249)	(87,992)
16	Adjusted SC Base Fuel Costs	Line 14 + Line 15	\$ 24,408,412	\$ 26,360,680	\$ 28,661,505	\$ 34,006,460	\$ 28,826,737	\$ 27,953,599

Line No.	Description	Reference	April 2018	May 2018	June 2018	July 2018	August 2018	September 2018	12 Month Total
17	Coal		\$ 48,707,453	\$ 43,769,927	\$ 60,125,208	\$ 78,080,690	\$ 69,066,593	\$ 57,870,451	\$ 692,326,132
18	Gas		24,056,538	28,330,414	28,766,370	32,556,951	31,723,098	28,289,164	331,206,292
19	Nuclear Fuel		22,093,332	23,573,146	25,184,924	26,059,479	26,319,625	22,459,299	292,549,691
20	Purchased Power		17,521,158	13,234,604	12,406,661	13,599,921	14,314,410	18,198,053	170,262,160
21	Fuel Expense Recovered Through Intersystem Sales		(8,133,916)	(2,159,869)	(475,752)	(1,529,388)	(930,936)	(3,428,856)	(48,570,731)
22	Total Fuel Costs	Sum Lines 17 through 21	\$ 104,244,565	\$ 106,748,222	\$ 126,007,411	\$ 148,767,653	\$ 140,492,789	\$ 123,388,111	\$ 1,437,773,544
23	Eliminate Avoided Fuel Benefit of SC NEM		186,947	194,232	194,179	194,126	194,082	194,038	2,059,039
24	Adjusted System Fuel costs	Line 22 + Line 23	\$ 104,431,512	\$ 106,942,454	\$ 126,201,591	\$ 148,961,779	\$ 140,686,871	\$ 123,582,148	\$ 1,439,832,583
25	Total Projected System Sales kwhs (w/solar)		6,601,396,828	6,388,774,083	7,478,721,604	8,297,492,355	8,527,103,187	7,896,876,161	87,400,232,205
26	Eliminate NEM Solar Generation kwhs		5,775,459	6,000,513	5,998,881	5,997,249	5,995,875	5,994,502	63,611,098
27	Adjusted Projected System kwh Sales(w/o solar)	Line 25 + Line 26	6,607,172,287	6,394,774,596	7,484,720,485	8,303,489,605	8,533,099,063	7,902,870,662	87,463,843,303
28	System Cost per kwh (¢/kwh)	Line 24 / Line 27 *100	1.5806	1.6723	1.6861	1.7940	1.6487	1.5638	1.6462
29	Adjusted Projected SC Retail Sales kwhs(w/o solar)		1,674,254,922	1,626,979,958	1,850,098,584	1,999,035,345	2,086,759,954	1,969,623,757	21,683,290,862
30	SC Base Fuel Costs	Line 29 * Line 28 / 100	\$ 26,462,905	\$ 27,208,657	\$ 31,194,937	\$ 35,862,014	\$ 34,404,819	\$ 30,800,243	\$ 356,611,647
31	Assign 100% of Avoided Fuel Benefit of SC NEM ^(Note 1)		(95,590)	(99,362)	(99,335)	(99,308)	(99,285)	(99,262)	(1,052,819)
32	Adjusted SC Base Fuel Costs	Line 30 + Line 31	\$ 26,367,315	\$ 27,109,295	\$ 31,095,602	\$ 35,762,706	\$ 34,305,534	\$ 30,700,981	\$ 355,558,828
33	Projected SC Retail Sales kWh Residential								6,412,992,614
34	General Service/Lighting								5,779,519,331
35	Industrial								9,427,167,820
36	Total SC	Sum Lines 33 through 35							21,619,679,765
37	SC Base Fuel Rate (cents / kWh)								1.6446

Note 1 - Equals total NEM avoided fuel benefit less portion included in DERP NEM Incentive.

DUKE ENERGY CAROLINAS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY - RESIDENTIAL
ACTUAL COSTS AND REVENUES JUNE 2016 - MAY 2017

Line No.	2015 Firm Coincident Peak CP%	Residential	2016 Firm Coincident Peak CP %	Residential
1		55.72%		42.11%
2				

Line No.	Description	Reference	Actual June 2016	Actual July 2016	Actual August 2016	Actual September 2016	Actual October 2016	Actual November 2016
3	Total Reagents		\$ 3,125,991	\$ 3,737,884	\$ 3,474,435	\$ 2,698,208	\$ 1,927,688	\$ 1,447,884
4	Emission Allowances		3,877	8,314	8,551	6,994	6,889	(35,993)
5	Off-System Sales		(22,586)	(44,462)	(53,749)	(38,383)	(208,508)	(45,189)
6	Net Environmental Costs	Sum Lines 3 thru 5	\$ 3,107,282	\$ 3,701,736	\$ 3,429,238	\$ 2,666,820	\$ 1,726,069	\$ 1,366,702
7	Total System KWH Sales		7,455,726,890	8,307,694,616	8,677,344,922	8,552,471,343	6,764,677,741	6,211,342,842
8	Environmental System Costs Incurred (¢ per Kwh)	Line 6 / Line 7 * 100	0.0417	0.0446	0.0395	0.0312	0.0255	0.0220
9	SC Retail Sales kWh		1,887,390,782	2,087,423,823	2,120,919,285	2,102,065,009	1,732,875,422	1,592,728,183
10	SC Environmental Costs	Line 8 * Line 9 / 100	\$ 786,597	\$ 930,113	\$ 838,175	\$ 655,463	\$ 442,159	\$ 350,454
11	Residential Environmental Cost Allocated by Firm CP	Line 10 * Line 2	\$ 438,255	\$ 518,215	\$ 466,992	\$ 365,193	\$ 246,350	\$ 195,256
12	SC Residential kWh Sales		570,961,439	735,458,585	717,753,691	680,714,851	461,347,690	383,296,175
13	SC Residential Environmental Cost Incurred (¢ per Kwh)	Line 11 / Line 12 * 100	0.0768	0.0705	0.0651	0.0536	0.0534	0.0509
14	SC Residential Environmental Cost Billed (¢ per Kwh)	Company records	0.0909	0.0909	0.0909	0.0909	0.0237	0.0237
15	SC Residential Environmental Costs (Over) / Under Recovery	(-Line 14 + Line 13)*Line 12 /100	\$ (80,749)	\$ (150,317)	\$ (185,447)	\$ (253,577)	\$ 137,011	\$ 104,414
16	SC Residential Environmental Costs (Over) / Under Recovery Cumulative Balance	Prior Year Annual Filing	\$ (1,930,812)					
17	Accounting Adjustment(s)		-					
18	Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Line 15 + Line 17 + Prior Month Cum Bal	\$ (2,011,561)	\$ (2,161,878)	\$ (2,347,325)	\$ (2,600,902)	\$ (2,463,892)	\$ (2,359,477)

Line No.	Description	Reference	Actual December 2016	Actual January 2017	Actual February 2017	Actual March 2017	Actual April 2017	Actual May 2017	Actual Twelve Months Ended May 2017
19	Total Reagents		\$ 2,148,026	\$ 2,206,739	\$ 1,029,561	\$ 1,860,766	\$ 2,187,640	\$ 2,665,378	\$ 28,510,200
20	Emission Allowances		593	(78,012)	(5,521)	190	342	437	(83,339)
21	Off-System Sales		(176,117)	(61,576)	(14,423)	(378,524)	(283,531)	(117,389)	(1,444,438)
22	Net Environmental Costs	Sum Lines 19 thru 21	\$ 1,972,501	\$ 2,067,150	\$ 1,009,616	\$ 1,482,433	\$ 1,904,451	\$ 2,548,426	\$ 26,982,423
23	Total System KWH Sales		6,894,316,081	7,535,755,155	6,552,001,704	6,356,251,191	7,138,821,692	5,896,556,967	86,342,961,144
24	Environmental System Costs Incurred (¢ per Kwh)	Line 22 / Line 23* 100	0.0286	0.0274	0.0154	0.0233	0.0267	0.0432	
25	SC Retail Sales kWh	Exhbit 2	1,681,764,571	1,778,680,433	1,639,883,558	1,558,321,115	1,828,831,145	1,438,093,127	21,448,976,453
26	SC Environmental Costs	Line 24 * Line 25/ 100	\$ 481,162	\$ 487,914	\$ 252,694	\$ 363,438	\$ 487,884	\$ 621,528	\$ 6,697,582
27	Residential Environmental Cost Allocated by Firm CP	Line 26 * Line 2	\$ 268,081	\$ 205,439	\$ 106,399	\$ 153,028	\$ 205,427	\$ 261,698	\$ 3,430,332
28	SC Residential kWh Sales		534,532,734	628,131,532	470,566,761	446,967,516	423,024,062	410,542,820	6,463,297,856
29	SC Residential Environmental Cost Incurred (¢ per Kwh)	Line 27 / Line 28 * 100	0.0502	0.0327	0.0226	0.0342	0.0486	0.0637	
30	SC Residential Environmental Cost Billed (¢ per Kwh)	Company records	0.0237	0.0237	0.0237	0.0237	0.0237	0.0237	
31	SC Residential Environmental Costs (Over) / Under Recovery	(-Line 30 + Line 29)*Line 28 /100	\$ 141,397	\$ 56,572	\$ (5,126)	\$ 47,097	\$ 105,169	\$ 164,399	80,843
32	Accounting Adjustment(s)								-
33	Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Line 31 + Line 32 + Prior Month Cum Bal	\$ (2,218,080)	\$ (2,161,508)	\$ (2,166,634)	\$ (2,119,537)	\$ (2,014,368)	\$ (1,849,969)	\$ (1,849,969)

DUKE ENERGY CAROLINAS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY - RESIDENTIAL
ESTIMATED COSTS AND REVENUES JUNE 2017 - SEPTEMBER 2017

Line No.		2015 Firm Coincident Peak CP%	Residential	2016 Firm Coincident Peak CP %		Residential
1			55.72%			42.11%
2						

Line No.	Description	Reference	<i>Estimated June 2017</i>	<i>Estimated July 2017</i>	<i>Estimated August 2017</i>	<i>Estimated September 2017</i>
34	Total Reagents		\$ 2,942,207	\$ 3,660,740	\$ 3,582,790	\$ 2,785,185
35	Emission Allowances		661	816	809	618
36	Off-System Sales		(5,493)	(21,381)	(14,878)	(36,641)
37	Net Environmental Costs	Sum Lines 34 thru 36	\$ 2,937,375	\$ 3,640,175	\$ 3,568,721	\$ 2,749,162
38	Total Projected System Sales kwhs (w/solar)		7,383,785,715	8,180,077,468	8,426,978,637	7,812,040,037
39	Environmental System Costs Incurred (¢ per Kwh)	Line 37 / Line 38* 100	0.0398	0.0445	0.0423	0.0352
40	Projected SC Retail Sales kWh		1,833,008,015	1,979,028,011	2,069,753,324	1,953,133,647
41	SC Environmental Costs	Line 39 * Line 40/ 100	\$ 729,197	\$ 880,677	\$ 876,515	\$ 687,334
42	Residential Environmental Cost Allocated by Firm CP	Line 41 * Line 2	\$ 307,033	\$ 370,815	\$ 369,062	\$ 289,406
43	SC Projected Residential kWh Sales		500,019,204	633,199,258	646,309,682	557,019,865
44	SC Residential Environmental Cost Incurred (¢ per Kwh)	Line 42 / Line 43 * 100	0.0614	0.0586	0.0571	0.0520
45	SC Residential Environmental Cost Billed (¢ per Kwh)	Company records	0.0237	0.0237	0.0237	0.0237
46	SC Residential Environmental Costs (Over) / Under Recovery	(-Line 45 + Line 44) * Line 43 /100	\$ 188,529	\$ 220,747	\$ 215,887	\$ 157,393
47	Cumulative SC Residential Environmental Costs (Over) / Under Recovery	Line 46 + Prior Month Cum Bal	\$ (1,661,440)	\$ (1,440,693)	\$ (1,224,806)	\$ (1,067,414)
48	SC Projected Residential Sales (October 2017-September 2018)					6,412,992,614
49	SC Residential Environmental Increment / (Decrement) (¢ per Kwh)	Line 47 / Line 48 * 100				(0.0166)

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY - GENERAL SERVICE/LIGHTING
ACTUAL COSTS AND REVENUES JUNE 2016 - MAY 2017

Line No.		2015 Firm Coincident Peak CP%	General Service / Lighting 20.89%			2016 Firm Coincident Peak CP %	General Service / Lighting 27.93%		
1									
2									
Line No.	Description	Reference	Actual June 2016	Actual July 2016	Actual August 2016	Actual September 2016	Actual October 2016	Actual November 2016	
3	Total Reagents		\$ 3,125,991	\$ 3,737,884	\$ 3,474,435	\$ 2,698,208	\$ 1,927,688	\$ 1,447,884	
4	Emission Allowances		3,877	8,314	8,551	6,994	6,889	(35,993)	
5	Off-System Sales		(22,586)	(44,462)	(53,749)	(38,383)	(208,508)	(45,189)	
6	Net Environmental Costs	Sum Lines 3 thru 5	\$ 3,107,282	\$ 3,701,736	\$ 3,429,238	\$ 2,666,820	\$ 1,726,069	\$ 1,366,702	
7	Total System KWH Sales		7,455,726,890	8,307,694,616	8,677,344,922	8,552,471,343	6,764,677,741	6,211,342,842	
8	Environmental System Costs Incurred (¢ per Kwh)	Line 6 / Line 7 * 100	0.0417	0.0446	0.0395	0.0312	0.0255	0.0220	
9	SC Retail Sales kWh		1,887,390,782	2,087,423,823	2,120,919,285	2,102,065,009	1,732,875,422	1,592,728,183	
10	SC Environmental Costs	Line 8 * Line 9 / 100	\$ 786,597	\$ 930,113	\$ 838,175	\$ 655,463	\$ 442,159	\$ 350,453	
11	General Service / Lighting Environmental Cost Allocated by Firm CP	Line 10 * Line 2	\$ 164,351	\$ 194,338	\$ 175,128	\$ 136,952	\$ 92,385	\$ 73,224	
12	SC General Service / Lighting kWh Sales		519,803,344	572,605,939	574,744,299	597,836,818	486,023,443	430,790,094	
13	SC General Service / Lighting Environmental Cost Incurred (¢ per Kwh)	Line 11 / Line 12 * 100	0.0316	0.0339	0.0305	0.0229	0.0190	0.0170	
14	SC General Service / Lighting Environmental Cost Billed (¢ per Kwh)	Company records	0.0243	0.0243	0.0243	0.0243	0.0065	0.0065	
15	SC General Service / Lighting Environmental Costs (Over) / Under Recovery	(-Line 14 + Line 13)*Line 12 /100	\$ 38,039	\$ 55,195	\$ 35,465	\$ (8,322)	\$ 60,793	\$ 45,223	
16	SC General Service / Lighting Environmental Costs (Over) / Under Recovery Cumulative Balance	Prior Year Annual Filing	\$ (1,237,827)						
17	Accounting Adjustment(s)								
18	Cumulative SC General Service / Lighting Environmental Costs (Over) / Under Recovery	Line 15 + Line 17 + Prior Month Cum Bal	\$ (1,199,788)	\$ (1,144,592)	\$ (1,109,127)	\$ (1,117,449)	\$ (1,056,656)	\$ (1,011,433)	

Line No.	Description	Reference	Actual December 2016	Actual January 2017	Actual February 2017	Actual March 2017	Actual April 2017	Actual May 2017	Actual Twelve Months Ended May 2017
19	Total Reagents		\$ 2,148,026	\$ 2,206,739	\$ 1,029,561	\$ 1,860,766	\$ 2,187,640	\$ 2,665,378	\$ 28,510,200
20	Emission Allowances		593	(78,012)	(5,521)	190	342	437	(83,339)
21	Off-System Sales		(176,117)	(61,576)	(14,423)	(378,524)	(283,531)	(117,389)	(1,444,438)
22	Net Environmental Costs	Sum Lines 19 thru 21	\$ 1,972,501	\$ 2,067,150	\$ 1,009,616	\$ 1,482,433	\$ 1,904,451	\$ 2,548,426	\$ 26,982,423
23	Total System KWH Sales		6,894,316,081	7,535,755,155	6,552,001,704	6,356,251,191	7,138,821,692	5,896,556,967	86,342,961,144
24	Environmental System Costs Incurred (¢ per Kwh)	Line 22 / Line 23* 100	0.0286	0.0274	0.0154	0.0233	0.0267	0.0432	
25	SC Retail Sales kWh		1,681,764,571	1,778,680,433	1,639,883,558	1,558,321,115	1,828,831,145	1,438,093,127	21,448,976,453
26	SC Environmental Costs	Line 24 * Line 25/ 100	\$ 481,162	\$ 487,914	\$ 252,694	\$ 363,438	\$ 487,884	\$ 621,528	\$ 6,697,581
27	General Service / Lighting Environmental Cost Allocated by Firm CP	Line 26 * Line 2	\$ 100,534	\$ 136,297	\$ 70,589	\$ 101,525	\$ 136,288	\$ 173,621	\$ 1,555,231
28	SC General Service / Lighting kWh Sales		434,785,982	457,768,996	420,455,715	412,288,547	456,181,407	433,395,497	5,796,680,081
29	SC General Service / Lighting Environmental Cost Incurred (¢ per Kwh)	Line 27 / Line 28 * 100	0.0231	0.0298	0.0168	0.0246	0.0299	0.0401	
30	SC General Service / Lighting Environmental Cost Billed (¢ per Kwh)	Company Records	0.0065	0.0065	0.0065	0.0065	0.0065	0.0065	
31	SC General Service / Lighting Environmental Costs (Over) / Under Recovery	(-Line 30 + Line 29)*Line 28 /100	\$ 72,273	\$ 106,542	\$ 43,260	\$ 74,726	\$ 106,636	\$ 145,450	\$ 775,282
32	Accounting Adjustment(s)								
33	Cumulative SC General Service / Lighting Environmental Costs (Over) / Under Recovery	Line 31 + Line 32 + Prior Month Cum Bal	\$ (939,160)	\$ (832,619)	\$ (789,358)	\$ (714,632)	\$ (607,996)	\$ (462,545)	\$ (462,545)

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY-GENERAL SERVICE/ LIGHTING
ESTIMATED COSTS AND REVENUES JUNE 2017 - SEPTEMBER 2017

Line No.					
1	2015 Firm Coincident Peak CP%	General Service / Lighting		2016 Firm Coincident Peak CP %	General Service / Lighting
2		20.89%			27.93%

Line No.	Description	Reference	Estimated June 2017	Estimated July 2017	Estimated August 2017	Estimated September 2017
34	Total Reagents		\$ 2,942,207	\$ 3,660,740	\$ 3,582,790	\$ 2,785,185
35	Emission Allowances		661	816	809	618
36	Off-System Sales		(5,493)	(21,381)	(14,878)	(36,641)
37	Net Environmental Costs	Sum Lines 34 thru 36	\$ 2,937,375	\$ 3,640,175	\$ 3,568,721	\$ 2,749,162
38	Total Projected System Sales kwhs (w/solar)		7,383,785,715	8,180,077,468	8,426,978,637	7,812,040,037
39	Environmental System Costs Incurred (¢ per Kwh)	Line 37 / Line 38* 100	0.0398	0.0445	0.0423	0.0352
40	Projected SC Retail Sales kWh		1,833,008,015	1,979,028,011	2,069,753,324	1,953,133,647
41	SC Environmental Costs	Line 39 * Line 40/ 100	\$ 729,197	\$ 880,677	\$ 876,515	\$ 687,334
42	General Service / Lighting Environmental Cost Allocated by Firm CP	Line 41 * Line 2	\$ 203,698	\$ 246,013	\$ 244,850	\$ 192,004
43	SC Projected General Service / Lighting kWh Sales		511,806,562	548,174,397	558,352,829	549,181,780
44	SC General Service / Lighting Environmental Cost Incurred (¢ per Kwh)	Line 42 / Line 43 * 100	0.0398	0.0449	0.0439	0.0350
45	SC General Service / Lighting Environmental Cost Billed (¢ per Kwh)	Company Records	0.0065	0.0065	0.0065	0.0065
46	SC General Service / Lighting Environmental Costs (Over) / Under Recovery	(-Line 45 + Line 44) * Line 43 /100	\$ 170,430	\$ 210,382	\$ 208,558	\$ 156,307
47	Cumulative SC General Service / Lighting Environmental Costs (Over) / Under Recovery	Line 46 + Prior Month Cum Bal	\$ (292,115)	\$ (81,733)	\$ 126,824	\$ 283,131
48	SC Projected General Service / Lighting Sales October 2017 - September 2018					5,779,519,331
49	SC General Service / Lighting Environmental Increment / (Decrement) (¢ per Kwh)	Line 47 / Line 48 * 100				0.0049

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY-INDUSTRIAL
ACTUAL COSTS AND REVENUES JUNE 2016 - MAY 2017

Line No.		2015 Firm Coincident Peak CP%	Industrial 23.39%			2016 Firm Coincident Peak CP %	Industrial 29.96%		
Line No.	Description	Reference	Actual June 2016	Actual July 2016	Actual August 2016	Actual September 2016	Actual October 2016	Actual November 2016	
3	Total Reagents		\$ 3,125,991	\$ 3,737,884	\$ 3,474,435	\$ 2,698,208	\$ 1,927,688	\$ 1,447,884	
4	Emission Allowances		3,877	8,314	8,551	6,994	6,889	(35,993)	
5	Off-System Sales		(22,586)	(44,462)	(53,749)	(38,383)	(208,508)	(45,189)	
6	Net Environmental Costs	Sum Lines 3 thru 5	\$ 3,107,282	\$ 3,701,736	\$ 3,429,238	\$ 2,666,820	\$ 1,726,069	\$ 1,366,702	
7	Total System KWH Sales		7,455,726,890	8,307,694,616	8,677,344,922	8,552,471,343	6,764,677,741	6,211,342,842	
8	Environmental System Costs Incurred (¢ per Kwh)	Line 6 / Line 7 * 100	0.0417	0.0446	0.0395	0.0312	0.0255	0.0220	
9	SC Retail Sales kWh		1,887,390,782	2,087,423,823	2,120,919,285	2,102,065,009	1,732,875,422	1,592,728,183	
10	SC Environmental Costs	Line 8 * Line 9 / 100	\$ 786,597	\$ 930,113	\$ 838,175	\$ 655,463	\$ 442,159	\$ 350,453	
11	Industrial Environmental Cost Allocated by Firm CP	Line 10 * Line 2	\$ 183,991	\$ 217,560	\$ 196,056	\$ 153,318	\$ 103,424	\$ 81,974	
12	SC Industrial kWh Sales		796,625,999	779,359,299	828,421,295	823,513,340	785,504,289	778,641,914	
13	SC Industrial Environmental Cost Incurred (¢ per Kwh)	Line 11 / Line 12 * 100	0.0231	0.0279	0.0237	0.0186	0.0132	0.0105	
14	SC Industrial Environmental Cost Billed (¢ per Kwh)	Company Records	0.0235	0.0235	0.0235	0.0235	0.0006	0.0006	
15	SC Industrial Environmental Costs (Over) / Under Recovery	(-Line 14 + Line 13)*Line 12 /100	\$ (3,216)	\$ 34,411	\$ 1,377	\$ (40,208)	\$ 98,711	\$ 77,302	
16	SC Industrial Environmental Costs								
17	(Over) / Under Recovery Cumulative Balance	Prior Year Annual Filing	\$ (1,590,865)						
18	Accounting Adjustment(s)								
	Cumulative SC Industrial Environmental Costs								
18	(Over) / Under Recovery	Line 15 + Line 17 + Prior Month Cum Bal	\$ (1,594,081)	\$ (1,559,670)	\$ (1,558,294)	\$ (1,598,502)	\$ (1,499,791)	\$ (1,422,489)	
			Actual December 2016	Actual January 2017	Actual February 2017	Actual March 2017	Actual April 2017	Actual May 2017	Actual Twelve Months Ended May 2017
Line No.	Description	Reference							
19	Total Reagents		\$ 2,148,026	\$ 2,206,739	\$ 1,029,561	\$ 1,860,766	\$ 2,187,640	\$ 2,665,378	\$ 28,510,200
20	Emission Allowances		593	(78,012)	(5,521)	190	342	437	(83,339)
21	Off-System Sales		(176,117)	(61,576)	(14,423)	(378,524)	(283,531)	(117,389)	(1,444,438)
22	Net Environmental Costs	Sum Lines 19 thru 21	\$ 1,972,501	\$ 2,067,150	\$ 1,009,616	\$ 1,482,433	\$ 1,904,451	\$ 2,548,426	26,982,423
23	Total System KWH Sales		6,894,316,081	7,535,755,155	6,552,001,704	6,356,251,191	7,138,821,692	5,896,556,967	86,342,961,144
24	Environmental System Costs Incurred (¢ per Kwh)	Line 22 / Line 23* 100	0.0286	0.0274	0.0154	0.0233	0.0267	0.0432	
25	SC Retail Sales kWh		1,681,764,571	1,778,680,433	1,639,883,558	1,558,321,115	1,828,831,145	1,438,093,127	21,448,976,453
26	SC Environmental Costs	Line 24 * Line 25/ 100	\$ 481,162	\$ 487,914	\$ 252,694	\$ 363,438	\$ 487,884	\$ 621,528	\$ 6,697,581
27	Industrial Environmental Cost Allocated by Firm CP	Line 26 * Line 2	\$ 112,547	\$ 146,178	\$ 75,707	\$ 108,885	\$ 146,169	\$ 186,209	\$ 1,712,018
28	SC Industrial kWh Sales		712,445,855	692,779,905	748,861,082	699,065,052	949,625,676	594,154,810	9,188,998,516
29	SC Industrial Environmental Cost Incurred (¢ per Kwh)	Line 27 / Line 28 * 100	0.0158	0.0211	0.0101	0.0156	0.0154	0.0313	
30	SC Industrial Environmental Cost Billed (¢ per Kwh)	Company Records	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	
31	SC Industrial Environmental Costs (Over) / Under Recovery	(-Line 30 + Line 29)*Line 28 /100	\$ 108,272	\$ 142,021	\$ 71,214	\$ 104,691	\$ 140,471	\$ 182,644	\$ 917,689
32	Accounting Adjustment(s)								
	Cumulative SC Industrial Environmental Costs								
33	(Over) / Under Recovery	Line 31 + Line 32 + Prior Month Cum Bal	\$ (1,314,217)	\$ (1,172,196)	\$ (1,100,982)	\$ (996,291)	\$ (855,819)	\$ (673,176)	\$ (673,176)

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E
CALCULATION OF ENVIRONMENTAL (OVER) / UNDER RECOVERY-INDUSTRIAL
ESTIMATED COSTS AND REVENUES JUNE 2017 - SEPTEMBER 2017

Line No.							
1	2015 Firm Coincident Peak CP%	Industrial				2016 Firm Coincident Peak CP %	Industrial
2		23.39%					29.96%

Line No.	Description	Reference	Estimated June 2017	Estimated July 2017	Estimated August 2017	Estimated September 2017
34	Total Reagents		\$ 2,942,207	\$ 3,660,740	\$ 3,582,790	\$ 2,785,185
35	Emission Allowances		\$ 661	\$ 816	\$ 809	\$ 618
36	Off-System Sales		\$ (5,493)	\$ (21,381)	\$ (14,878)	\$ (36,641)
37	Net Environmental Costs	Sum Lines 34 thru 36	\$ 2,937,375	\$ 3,640,175	\$ 3,568,721	\$ 2,749,162
38	Total Projected System Sales kwhs w/solar		7,383,785,715	8,180,077,468	8,426,978,637	7,812,040,037
39	Environmental System Costs Incurred (¢ per Kwh)	Line 37 / Line 38* 100	0.0398	0.0445	0.0423	0.0352
40	Projected SC Retail Sales kWh		1,833,008,015	1,979,028,011	2,069,753,324	1,953,133,647
41	SC Environmental Costs	Line 39 * Line 40/ 100	\$ 729,197	\$ 880,677	\$ 876,515	\$ 687,334
42	Industrial Environmental Cost Allocated by Firm CP	Line 41 * Line 2	\$ 218,466	\$ 263,849	\$ 262,602	\$ 205,924
43	SC Projected Industrial kWh Sales		821,182,249	797,654,356	865,090,814	846,932,002
44	SC Industrial Environmental Cost Incurred (¢ per Kwh)	Line 42 / Line 43 * 100	0.0266	0.0331	0.0304	0.0243
45	SC Industrial Environmental Cost Billed (¢ per Kwh)	Company Records	0.0006	0.0006	0.0006	0.0006
46	SC Industrial Environmental Costs (Over) / Under Recovery	(-Line 45 + Line 44)*Line 43 /100	\$ 213,539	\$ 259,063	\$ 257,412	\$ 200,842
47	Cumulative SC Industrial Environmental Costs (Over) / Under Recovery	Line 46 + Prior Month Cum Bal	\$ (459,637)	\$ (200,574)	\$ 56,838	\$ 257,681
48	SC Projected Industrial Sales October 2017 - September 2018					9,427,167,820
49	SC Industrial Environmental Increment / (Decrement) (¢ per Kwh)	Line 47 / Line 48 * 100				0.0027

DUKE ENERGY CAROLINAS, LLC

**SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E
PROJECTED BILLING PERIOD ENVIRONMENTAL COSTS
FOR THE 12 MONTHS ENDING OCTOBER 1, 2017 TO SEPTEMBER 30, 2018**

Line No.	Class	2016 Firm Coincident Peak (CP) KWs	CP %
1	Residential	1,803,958	42.11%
2	General Service / Lighting	1,196,817	27.93%
3	Industrial	1,283,587	29.96%
	Total SC	4,284,362	100.00%

Line No.	Description	Reference	October 2017	November 2017	December 2017	January 2018	February 2018	March 2018
4	Total Reagents		\$ 1,919,630	\$ 1,587,239	\$ 2,608,893	\$ 3,807,850	\$ 2,884,088	\$ 2,342,092
5	Emission Allowances		410	364	599	827	631	571
6	Estimated Off-system Sales		(15,216)	(32,283)	(65,060)	(206,313)	(70,245)	(96,853)
7	Net Environmental Costs	Sum Lines 4 through 6	\$ 1,904,823	\$ 1,555,320	\$ 2,544,432	\$ 3,602,365	\$ 2,814,475	\$ 2,245,810
8	Total Projected System Sales kwhs (w/solar)		6,398,225,896	6,307,340,529	7,085,330,923	8,005,281,104	7,575,678,258	6,838,011,278
9	Environmental System Costs Incurred (¢ per Kwh)	Line 7 / Line 8 *100	0.0298	0.0247	0.0359	0.0450	0.0372	0.0328
10	Projected SC Retail Sales kWh		1,639,702,185	1,610,567,953	1,736,894,910	1,888,371,507	1,860,349,263	1,712,803,907
11	SC Environmental Costs	Line 9 * Line 10 /100	\$ 488,158	\$ 397,148	\$ 623,741	\$ 849,764	\$ 691,147	\$ 562,537

Line No.	Description	Reference	April 2018	May 2018	June 2018	July 2018	August 2018	September 2018	12 Month Total
12	Total Reagents		\$ 2,138,807	\$ 2,033,505	\$ 2,728,138	\$ 3,449,188	\$ 3,209,812	\$ 2,716,424	\$ 31,425,666
13	Emission Allowances		470	458	615	757	712	602	7,016
14	Estimated Off-system Sales		(123,867)	(32,891)	(7,245)	(23,290)	(14,177)	(52,216)	(739,656)
15	Net Environmental Costs	Sum Lines 12 thru 14	\$ 2,015,410	\$ 2,001,071	\$ 2,721,508	\$ 3,426,655	\$ 3,196,347	\$ 2,664,810	\$ 30,693,026
16	Total Projected System Sales kwhs (w/solar)		6,601,396,828	6,388,774,083	7,478,721,604	8,297,492,355	8,527,103,187	7,896,876,161	87,400,232,205
17	Environmental System Costs Incurred (¢ per Kwh)	Line 15 / Line 16 *100	0.0305	0.0313	0.0364	0.0413	0.0375	0.0337	
18	Projected SC Retail Sales kWh		1,668,479,463	1,620,979,444	1,844,099,703	1,993,038,096	2,080,764,079	1,963,629,255	21,619,679,765
19	SC Environmental Costs	Line 17 * Line 18 /100	\$ 509,388	\$ 507,718	\$ 671,068	\$ 823,074	\$ 779,965	\$ 662,629	\$ 7,566,337
SC Environmental Costs Allocated on Firm CP kW's									
20	Residential	Total Line 19 * Line 1							\$ 3,185,855
21	General Service / Lighting	Total Line 19 * Line 2							\$ 2,113,622
22	Industrial	Total Line 19 * Line 3							\$ 2,266,861
23	Total SC	Sum Lines 20 through 22							\$ 7,566,337
Projected SC Retail Sales kWh									
24	Residential								6,412,992,614
25	General Service / Lighting								5,779,519,331
26	Industrial								9,427,167,820
27	Total SC	Sum Lines 24 through 26							21,619,679,765
SC Enviromental Costs ¢/kWh									
28	Residential	Line 20 / Line 24 * 100							0.0497
29	General Service / Lighting	Line 21 / Line 25 * 100							0.0366
30	Industrial	Line 22 / Line 26 * 100							0.0240

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
PURPA PURCHASED POWER CAPACITY COSTS (OVER) / UNDER RECOVERY
CALCULATION OF PURPA PURCHASED POWER CAPACITY COSTS (OVER) / UNDER RECOVERY - RESIDENTIAL
ACTUAL COSTS AND REVENUES JUNE 2016 - MAY 2017

Line No.		2015 Firm Coincident Peak CP%	Residential 55.72%			2016 Firm Coincident Peak CP %	Residential 42.11%		
1									
Line No.	Description	Reference	Actual June 2016	Actual July 2016	Actual August 2016	Actual September 2016	Actual October 2016	Actual November 2016	
2	Total PURPA Purchased Power Capacity Costs		\$ 1,946,097	\$ 5,904,250	\$ 5,706,969	\$ 3,239,690	\$ 2,360,131	\$ 788,340	
3	Total System kWh Sales		7,455,726,890	8,307,694,616	8,677,344,922	8,552,471,343	6,764,677,741	6,211,342,842	
4	PURPA Purchased Power System Costs Incurred (¢/kWh)	Line 2 / Line 3* 100	0.0261	0.0711	0.0658	0.0379	0.0349	0.0127	
5	SC Retail Sales kWh		1,887,390,782	2,087,423,823	2,120,919,285	2,102,065,009	1,732,875,422	1,592,728,183	
6	SC PURPA Purchased Power Costs	Line 4 * Line 5 / 100	\$ 492,648	\$ 1,483,525	\$ 1,394,899	\$ 796,266	\$ 604,584	\$ 202,148	
7	Residential PURPA Purchased Power Cost Allocated by Firm CP	Line 6 * Line 1	\$ 274,480	\$ 826,550	\$ 777,172	\$ 443,642	\$ 336,845	\$ 112,627	
8	SC Residential kWh Sales		570,961,439	735,458,585	717,753,691	680,714,851	461,347,690	383,296,175	
9	SC Residential PURPA Purchased Power Cost Incurred (¢/kWh)	Line 7 / Line 8 * 100	0.0481	0.1124	0.1083	0.0652	0.0730	0.0294	
10	SC Residential Billed (¢/kWh)	Company Records	0.0452	0.0452	0.0452	0.0452	0.0797	0.0797	
11	SC PURPA Purchased Power Costs (Over) / Under Recovery	(-Line 10 + Line 9)* Line 8 / 100	\$ 16,405	\$ 494,123	\$ 452,747	\$ 135,959	\$ (30,849)	\$ (192,860)	
12	Prior Year Cumulative SC Residential PURPA Purchased Power Costs (Over) / Under Recovery	Prior Year Annual Filing	\$ 1,160,025						
13	Cumulative SC Residential PURPA Purchased Power Costs (Over) / Under Recovery	Line 11 + Prior Month Cum Bal	\$ 1,176,431	\$ 1,670,553	\$ 2,123,301	\$ 2,259,260	\$ 2,228,411	\$ 2,035,552	
Line No.	Description	Reference	Actual December 2016	Actual January 2017	Actual February 2017	Actual March 2017	Actual April 2017	Actual May 2017	Actual Twelve Months Ended May 2017
14	Total PURPA Purchased Power Capacity Costs		\$ 746,981	\$ 1,058,777	\$ 1,130,225	\$ 1,144,637	\$ 1,184,876	\$ 983,473	\$ 26,194,447
15	Total System kWh Sales		6,894,316,081	7,535,755,155	6,552,001,704	6,356,251,191	7,138,821,692	5,896,556,967	\$ 86,342,961,144
16	PURPA Purchased Power System Costs Incurred (¢/kWh)	Line 14 / Line 15* 100	0.0108	0.0141	0.0173	0.0180	0.0166	0.0167	
17	SC Retail Sales kWh		1,681,764,571	1,778,680,433	1,639,883,558	1,558,321,115	1,828,831,145	1,438,093,127	\$ 21,448,976,453
18	SC PURPA Purchased Power Costs	Line 16 * Line 17 / 100	\$ 182,215	\$ 249,905	\$ 282,881	\$ 280,623	\$ 303,543	\$ 239,856	\$ 6,513,093
19	Residential PURPA Purchased Power Cost Allocated by Firm CP	Line 18 * Line 1	\$ 101,521	\$ 105,224	\$ 119,109	\$ 118,158	\$ 127,809	\$ 100,993	\$ 3,444,131
20	SC Residential kWh Sales		534,532,734	628,131,532	470,566,761	446,967,516	423,024,062	410,542,820	6,463,297,856
21	SC Residential PURPA Purchased Power Cost Incurred (¢/kWh)	Line 19 / Line 20 * 100	0.0190	0.0168	0.0253	0.0264	0.0302	0.0246	
22	SC ResidentialBilled (¢/kWh)	Company Records	0.0797	0.0797	0.0797	0.0797	0.0797	0.0797	
23	SC PURPA Purchased Power Costs (Over) / Under Recovery	(-Line 22 + Line 21)*Line 20 / 100	\$ (324,502)	\$ (395,397)	\$ (255,933)	\$ (238,075)	\$ (209,341)	\$ (226,210)	\$ (773,930)
24	Cumulative SC Residential PURPA Purchased Power Costs (Over) / Under Recovery	Line 23 + Prior Month Cum Bal	\$ 1,711,050	\$ 1,315,653	\$ 1,059,720	\$ 821,645	\$ 612,305	\$ 386,095	\$ 386,095

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
PURPA PURCHASED POWER CAPACITY COSTS (OVER) / UNDER RECOVERY
CALCULATION OF PURPA PURCHASED POWER CAPACITY COSTS (OVER) / UNDER RECOVERY - RESIDENTIAL
ESTIMATED COSTS AND REVENUES JUNE 2017 - SEPTEMBER 2017

<u>Line No.</u>		2015 Firm Coincident Peak CP%	Residential 55.72%			2016 Firm Coincident Peak CP %	Residential 42.11%
Line No.	Description	Reference		<i>Estimated June 2017</i>	<i>Estimated July 2017</i>	<i>Estimated August 2017</i>	<i>Estimated September 2017</i>
25	Total PURPA Purchased Power Capacity Costs			\$ 2,048,842	\$ 2,095,126	\$ 2,050,122	\$ 1,979,735
26	Total Projected System Sales kwhs (w/solar)			7,383,785,715	8,180,077,468	8,426,978,637	7,812,040,037
27	PURPA Purchased Power System Costs Incurred (¢/kWh)	Line 25 / Line 26* 100		0.0277	0.0256	0.0243	0.0253
28	Projected SC Retail Sales kWh			1,833,008,015	1,979,028,011	2,069,753,324	1,953,133,647
29	SC PURPA Purchased Power Costs	Line 27 * Line 28 / 100		\$ 508,620	\$ 506,879	\$ 503,531	\$ 494,965
30	Residential PURPA Purchased Power Cost Allocated by Firm CP	Line 29 * Line 1		\$ 214,158	\$ 213,425	\$ 212,015	\$ 208,408
31	SC Projected Residential kWh Sales			500,019,204	633,199,258	646,309,682	557,019,865
32	SC Residential PURPA Purchased Power Cost Incurred (¢/kWh)	Line 30 / Line 31 * 100		0.0428	0.0337	0.0328	0.0374
33	SC Residential Billed (¢/kWh)	Company Records		0.0797	0.0797	0.0797	0.0797
34	SC PURPA Purchased Power Costs (Over) / Under Recovery	(-Line 33 + Line 32)*Line 31 /100		\$ (184,357)	\$ (291,235)	\$ (303,094)	\$ (235,537)
35	Cumulative SC Residential PURPA Purchased Power Costs (Over) / Under Recovery	Line 34 + Prior Month Cum Bal		\$ 201,736	\$ (89,500)	\$ (392,594)	\$ (628,131)
36	SC Projected Residential Sales (October 2017-September 2018)					6,412,992,614	
37	SC Residential PURPA Purchased Power Increment / (Decrement) (¢/kWh)	Line 35 / Line 36* 100				(0.0098)	

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
PURPA PURCHASED POWER CAPACITY COSTS (OVER) / UNDER RECOVERY
CALCULATION OF PURPA PURCHASED POWER CAPACITY COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE/ LIGHTING
ACTUAL COSTS AND REVENUES JUNE 2016 - MAY 2017

Line No.		2015 Firm Coincident Peak CP%	General Service / Lighting 20.89%		2016 Firm Coincident Peak CP %		General Service / Lighting 27.93%		
1									
			Actual June 2016	Actual July 2016	Actual August 2016	Actual September 2016	Actual October 2016	Actual November 2016	
Line No.	Description	Reference							
2	Total PURPA Purchased Power Capacity Costs		\$ 1,946,097	\$ 5,904,250	\$ 5,706,969	\$ 3,239,690	\$ 2,360,131	\$ 788,340	
3	Total System kWh Sales		7,455,726,890	8,307,694,616	8,677,344,922	8,552,471,343	6,764,677,741	6,211,342,842	
4	PURPA Purchased Power System Costs Incurred (¢/kWh)	Line 2 / Line 3* 100	0.0261	0.0711	0.0658	0.0379	0.0349	0.0127	
5	SC Retail Sales kWh		1,887,390,782	2,087,423,823	2,120,919,285	2,102,065,009	1,732,875,422	1,592,728,183	
6	SC PURPA Purchased Power Costs	Line 4 * Line 5 / 100	\$ 492,648	\$ 1,483,525	\$ 1,394,899	\$ 796,266	\$ 604,584	\$ 202,148	
7	General Service / Lighting PURPA Purchased Power Cost Allocated by Firm CP	Line 6 * Line 1	\$ 102,934	\$ 309,967	\$ 291,450	\$ 166,372	\$ 126,322	\$ 42,237	
8	SC General Service / Lighting kWh Sales		519,803,344	572,605,939	574,744,299	597,836,818	486,023,443	430,790,094	
9	SC General Service / Lighting PURPA Purchased Power Cost Incurred (¢/kWh)	Line 7 / Line 8 * 100	0.0198	0.0541	0.0507	0.0278	0.0260	0.0098	
10	SC General Service / Lighting Billed (¢/kWh)	Company Records	0.0179	0.0179	0.0179	0.0179	0.0330	0.0330	
11	SC PURPA Purchased Power Costs (Over) / Under Recovery	(-Line 10 + Line 9)* Line 8 / 100	\$ 9,889	\$ 207,471	\$ 188,571	\$ 59,359	\$ (34,066)	\$ (99,924)	
12	Prior Year Cumulative SC General Service/Lighting PURPA Purchased Power Costs (Over) / Under Recovery	Prior Year Annual Filing	\$ 357,365						
13	Cumulative SC General Service / Lighting PURPA Purchased Power Costs (Over) / Under Recovery	Line 11 + Prior Month Cum Bal	\$ 367,253	\$ 574,724	\$ 763,295	\$ 822,654	\$ 788,588	\$ 688,664	
Line No.	Description	Reference	Actual December 2016	Actual January 2017	Actual February 2017	Actual March 2017	Actual April 2017	Actual May 2017	Actual Twelve Months Ended May 2017
14	Total PURPA Purchased Power Capacity Costs		\$ 746,981	\$ 1,058,777	\$ 1,130,225	\$ 1,144,637	\$ 1,184,876	\$ 983,473	\$ 26,194,447
15	Total System kWh Sales		6,894,316,081	7,535,755,155	6,552,001,704	6,356,251,191	7,138,821,692	5,896,556,967	\$ 86,342,961,144
16	PURPA Purchased Power System Costs Incurred (¢/kWh)	Line 14 / Line 15* 100	0.0108	0.0141	0.0173	0.0180	0.0166	0.0167	
17	SC Retail Sales kWh		1,681,764,571	1,778,680,433	1,639,883,558	1,558,321,115	1,828,831,145	1,438,093,127	\$ 21,448,976,453
18	SC PURPA Purchased Power Costs	Line 16 * Line 17 / 100	\$ 182,215	\$ 249,905	\$ 282,881	\$ 280,623	\$ 303,543	\$ 239,856	\$ 6,513,093
19	General Service / Lighting PURPA Purchased Power Cost Allocated by Firm CP	Line 18 * Line 1	\$ 38,072	\$ 69,810	\$ 79,022	\$ 78,391	\$ 84,793	\$ 67,003	\$ 1,456,371
20	SC General Service / Lighting kWh Sales		434,785,982	457,768,996	420,455,715	412,288,547	456,181,407	433,395,497	5,796,680,081
21	SC General Service / Lighting PURPA Purchased Power Cost Incurred (¢/kWh)	Line 19 / Line 20 * 100	0.0088	0.0153	0.0188	0.0190	0.0186	0.0155	
22	SC General Service / Lighting Billed (¢/kWh)	Company Records	0.0330	0.0330	0.0330	0.0330	0.0330	0.0330	
23	SC PURPA Purchased Power Costs (Over) / Under Recovery	(-Line 22 + Line 21)*Line 20 / 100	\$ (105,407)	\$ (81,254)	\$ (59,727)	\$ (57,664)	\$ (65,747)	\$ (76,018)	\$ (114,518)
24	Cumulative SC General Service / Lighting PURPA Purchased Power Costs (Over) / Under Recovery	Line 23 + Prior Month Cum Bal	\$ 583,256	\$ 502,002	\$ 442,276	\$ 384,611	\$ 318,865	\$ 242,847	\$ 242,847

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
PURPA PURCHASED POWER CAPACITY COSTS (OVER) / UNDER RECOVERY
CALCULATION OF PURPA PURCHASED POWER CAPACITY COSTS (OVER) / UNDER RECOVERY - GENERAL SERVICE/ LIGHTING
ESTIMATED COSTS AND REVENUES JUNE 2017 - SEPTEMBER 2017

Line No.	2015 Firm Coincident Peak CP%	General Service / Lighting	2016 Firm Coincident Peak CP %	General Service / Lighting
1		20.89%		27.93%

Line No.	Description	Reference	Estimated June 2017	Estimated July 2017	Estimated August 2017	Estimated September 2017
25	Total PURPA Purchased Power Capacity Costs		\$ 2,048,842	\$ 2,095,126	\$ 2,050,122	\$ 1,979,735
26	Total Projected System Sales kwhs (w/solar)		7,383,785,715	8,180,077,468	8,426,978,637	7,812,040,037
27	PURPA Purchased Power System Costs Incurred (¢/kWh)	Line 25 / Line 26* 100	0.0277	0.0256	0.0243	0.0253
28	Projected SC Retail Sales kWh		1,833,008,015	1,979,028,011	2,069,753,324	1,953,133,647
29	SC PURPA Purchased Power Costs	Line 27 * Line 28 / 100	\$ 508,620	\$ 506,879	\$ 503,531	\$ 494,965
30	General Service / Lighting PURPA Purchased Power Cost Allocated by Firm CP	Line 29 * Line 1	\$ 142,081	\$ 141,594	\$ 140,659	\$ 138,266
31	SC Projected General Service / Lighting kWh Sales		511,806,562	548,174,397	558,352,829	549,181,780
32	SC General Service / Lighting PURPA Purchased Power Cost Incurred (¢/kWh)	Line 30 / Line 31 * 100	0.0278	0.0258	0.0252	0.0252
33	SC General Service / Lighting Billed (¢/kWh)	Company Records	0.0330	0.0330	0.0330	0.0330
34	SC PURPA Purchased Power Costs (Over) / Under Recovery	(-Line 33 + Line 32)*Line 31 /100	\$ (26,815)	\$ (39,303)	\$ (43,597)	\$ (42,964)
35	Cumulative SC General Service / Lighting PURPA Purchased Power Costs (Over) / Under Recovery	Line 34 + Prior Month Cum Bal	\$ 216,031	\$ 176,728	\$ 133,131	\$ 90,167
36	SC Projected General Service / Lighting Sales October 2017 - September 2018					5,779,519,331
37	SC General Service / Lighting PURPA Purchased Power Increment / (Decrement) (¢/kWh)	Line 35 / Line 36* 100				0.0016

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
PURPA PURCHASED POWER CAPACITY COSTS (OVER) / UNDER RECOVERY
CALCULATION OF PURPA PURCHASED POWER CAPACITY COSTS (OVER) / UNDER RECOVERY - INDUSTRIAL
ACTUAL COSTS AND REVENUES JUNE 2016 - MAY 2017

Line No.	2015 Firm Coincident Peak CP%	Industrial 23.39%	2016 Firm Coincident Peak CP %	Industrial 29.96%
1				

Line No.	Description	Reference	Actual June 2016	Actual July 2016	Actual August 2016	Actual September 2016	Actual October 2016	Actual November 2016
2	Total PURPA Purchased Power Capacity Costs		\$ 1,946,097	\$ 5,904,250	\$ 5,706,969	\$ 3,239,690	\$ 2,360,131	\$ 788,340
3	Total System kWh Sales		7,455,726,890	8,307,694,616	8,677,344,922	8,552,471,343	6,764,677,741	6,211,342,842
4	PURPA Purchased Power System Costs Incurred (¢/kWh)	Line 2 / Line 3* 100	0.0261	0.0711	0.0658	0.0379	0.0349	0.0127
5	SC Retail Sales kWh		1,887,390,782	2,087,423,823	2,120,919,285	2,102,065,009	1,732,875,422	1,592,728,183
6	SC PURPA Purchased Power Costs	Line 4 * Line 5 / 100	\$ 492,648	\$ 1,483,525	\$ 1,394,899	\$ 796,266	\$ 604,584	\$ 202,148
7	Industrial PURPA Purchased Power Cost Allocated by Firm CP	Line 6 * Line 1	\$ 115,234	\$ 347,008	\$ 326,277	\$ 186,253	\$ 141,417	\$ 47,284
8	SC Industrial kWh Sales		796,625,999	779,359,299	828,421,295	823,513,340	785,504,289	778,641,914
9	SC Industrial PURPA Purchased Power Cost Incurred (¢/kWh)	Line 7 / Line 8 * 100	0.0145	0.0445	0.0394	0.0226	0.0180	0.0061
10	SC Industrial Billed (¢/kWh)	Company Records	0.0148	0.0148	0.0148	0.0148	0.0223	0.0223
11	SC PURPA Purchased Power Costs (Over) / Under Recovery	(-Line 10 + Line 9)* Line 8 / 100	\$ (2,667)	\$ 231,663	\$ 203,671	\$ 64,373	\$ (33,750)	\$ (126,353)
12	Prior Year Cumulative SC Industrial PURPA Purchased Power Costs (Over) / Under Recovery	Prior Year Annual Filing	\$ 358,097					
13	Cumulative SC Industrial PURPA Purchased Power Costs (Over) / Under Recovery	Line 11 + Prior Month Cum Bal	\$ 355,431	\$ 587,094	\$ 790,765	\$ 855,138	\$ 821,388	\$ 695,035

Line No.	Description	Reference	Actual December 2016	Actual January 2017	Actual February 2017	Actual March 2017	Actual April 2017	Actual May 2017	Actual Twelve Months Ended May 2017
14	Total PURPA Purchased Power Capacity Costs		\$ 746,981	\$ 1,058,777	\$ 1,130,225	\$ 1,144,637	\$ 1,184,876	\$ 983,473	\$ 26,194,447
15	Total System kWh Sales		6,894,316,081	7,535,755,155	6,552,001,704	6,356,251,191	7,138,821,692	5,896,556,967	86,342,961,144
16	PURPA Purchased Power System Costs Incurred (¢/kWh)	Line 14 / Line 15* 100	0.0108	0.0141	0.0173	0.0180	0.0166	0.0167	
17	SC Retail Sales kWh		1,681,764,571	1,778,680,433	1,639,883,558	1,558,321,115	1,828,831,145	1,438,093,127	21,448,976,453
18	SC PURPA Purchased Power Costs	Line 16 * Line 17 / 100	\$ 182,215	\$ 249,905	\$ 282,881	\$ 280,623	\$ 303,543	\$ 239,856	\$ 6,513,093
19	Industrial PURPA Purchased Power Cost Allocated by Firm CP	Line 18 * Line 1	\$ 42,621	\$ 74,871	\$ 84,751	\$ 84,074	\$ 90,941	\$ 71,860	\$ 1,612,591
20	SC Industrial kWh Sales		712,445,855	692,779,905	748,861,082	699,065,052	949,625,676	594,154,810	9,188,998,516
21	SC Industrial PURPA Purchased Power Cost Incurred (¢/kWh)	Line 19 / Line 20 * 100	0.0060	0.0108	0.0113	0.0120	0.0096	0.0121	
22	SC Industrial Base Rate Reduction Billed (¢/kWh)	Company Records	0.0223	0.0223	0.0223	0.0223	0.0223	0.0223	
23	SC PURPA Purchased Power Costs (Over) / Under Recovery	(-Line 22 + Line 21)*Line 20 / 100	\$ (116,254)	\$ (79,619)	\$ (82,246)	\$ (71,818)	\$ (120,826)	\$ (60,637)	\$ (194,463)
24	Cumulative SC Industrial PURPA Purchased Power Costs (Over) / Under Recovery	Line 23 + Prior Month Cum Bal	\$ 578,781	\$ 499,162	\$ 416,916	\$ 345,097	\$ 224,272	\$ 163,635	\$ 163,635

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
PURPA PURCHASED POWER CAPACITY COSTS (OVER) / UNDER RECOVERY
CALCULATION OF PURPA PURCHASED POWER CAPACITY COSTS (OVER) / UNDER RECOVERY - INDUSTRIAL
ESTIMATED COSTS AND REVENUES JUNE 2017 - SEPTEMBER 2017

Line No.	2015 Firm Coincident Peak CP%	Industrial	2016 Firm Coincident Peak CP %	Industrial
1		23.39%		29.96%

Line No.	Description	Reference	<i>Estimated June 2017</i>	<i>Estimated July 2017</i>	<i>Estimated August 2017</i>	<i>Estimated September 2017</i>
25	Total PURPA Purchased Power Capacity Costs		\$ 2,048,842	\$ 2,095,126	\$ 2,050,122	\$ 1,979,735
26	Total Projected System Sales kwhs (w/solar)		7,383,785,715	8,180,077,468	8,426,978,637	7,812,040,037
27	PURPA Purchased Power System Costs Incurred (¢/kWh)	Line 25 / Line 26* 100	0.0277	0.0256	0.0243	0.0253
28	Projected SC Retail Sales kWh		1,833,008,015	1,979,028,011	2,069,753,324	1,953,133,647
29	SC PURPA Purchased Power Costs	Line 27 * Line 28 / 100	\$ 508,620	\$ 506,879	\$ 503,531	\$ 494,965
30	Industrial PURPA Purchased Power Cost Allocated by Firm CP	Line 29 * Line 1	\$ 152,382	\$ 151,860	\$ 150,857	\$ 148,291
31	SC Projected Industrial kWh Sales		821,182,249	797,654,356	865,090,814	846,932,002
32	SC Industrial PURPA Purchased Power Cost Incurred (¢/kWh)	Line 30 / Line 31 * 100	0.0186	0.0190	0.0174	0.0175
33	SC Industrial Billed (¢/kWh)		0.0223	0.0223	0.0223	0.0223
34	SC PURPA Purchased Power Costs (Over) / Under Recovery	(-Line 33 + Line 32)*Line 31 /100	\$ (30,742)	\$ (26,017)	\$ (42,058)	\$ (40,575)
35	Cumulative SC Residential PURPA Purchased Power Costs (Over) / Under Recovery	Line 34 + Prior Month Cum Bal	\$ 132,893	\$ 106,876	\$ 64,818	\$ 24,243
36	SC Projected Industrial Sales October 2017 - September 2018					9,427,167,820
37	SC Industrial PURPA Purchased Power Increment / (Decrement) (¢/kWh)	Line 35 / Line 36* 100				0.0003

DUKE ENERGY CAROLINAS, LLCSOUTH CAROLINA RETAIL FUEL CASE
PROJECTED BILLING PERIOD CAPACITY RELATED COSTS
FOR THE 12 MONTHS ENDING OCTOBER 1, 2017 TO SEPTEMBER 30, 2018

Line No.	Class	2016 Firm Coincident Peak (CP) KWs	CP %
1	Residential	1,803,958	42.11%
2	General Service / Lighting	1,196,817	27.93%
3	Industrial	1,283,587	29.96%
	Total SC	4,284,362	100%

Line No.	Description	Reference	October 2017	November 2017	December 2017	January 2018	February 2018	March 2018
4	Total PURPA Purchased Power Capacity Costs		\$ 2,060,552	\$ 1,849,214	\$ 1,746,180	\$ 1,822,317	\$ 1,772,445	\$ 1,951,779
5	Firm Natural Gas Transportation and Storage Costs		\$ 4,066,027	\$ 4,527,474	\$ 4,467,860	\$ 5,285,667	\$ 4,359,390	\$ 4,075,024
6	Total Capacity Costs	Line 4 + Line 5	\$ 6,126,579	\$ 6,376,688	\$ 6,214,040	\$ 7,107,984	\$ 6,131,834	\$ 6,026,803
7	Total Projected System Sales kwhs (w/solar)		6,398,225,896	6,307,340,529	7,085,330,923	8,005,281,104	7,575,678,258	6,838,011,278
8	Capacity Related System Costs Incurred (¢/Kwh)	Line 6 / Line 7 *100	0.0958	0.1011	0.0877	0.0888	0.0809	0.0881
9	Projected SC Retail Sales kWh		1,639,702,185	1,610,567,953	1,736,894,910	1,888,371,507	1,860,349,263	1,712,803,907
10	SC Purchased Power Capacity Costs	Line 8 * Line 9 /100	\$ 1,570,086	\$ 1,628,276	\$ 1,523,307	\$ 1,676,707	\$ 1,505,786	\$ 1,509,610

Line No.	Description	Reference	April 2018	May 2018	June 2018	July 2018	August 2018	September 2018	12 Month Total
11	Total PURPA Purchased Power Capacity Costs		\$ 2,072,144	\$ 2,085,809	\$ 2,041,798	\$ 2,066,372	\$ 2,023,393	\$ 1,955,188	\$ 23,447,191
12	Firm Natural Gas Transportation and Storage Costs		\$ 5,052,817	\$ 5,016,842	\$ 4,671,385	\$ 4,681,870	\$ 4,640,301	\$ 4,457,398	\$ 55,302,053
13	Total Capacity Costs	Line 11 + Line 12	\$ 7,124,961	\$ 7,102,651	\$ 6,713,184	\$ 6,748,242	\$ 6,663,694	\$ 6,412,586	\$ 78,749,244
14	Total Projected System Sales kwhs (w/solar)		6,601,396,828	6,388,774,083	7,478,721,604	8,297,492,355	8,527,103,187	7,896,876,161	87,400,232,205
15	Capacity Related System Costs Incurred (¢/Kwh)	Line 13 / Line 14 *100	0.1079	0.1112	0.0898	0.0813	0.0781	0.0812	
16	Projected SC Retail Sales kWh		1,668,479,463	1,620,979,444	1,844,099,703	1,993,038,096	2,080,764,079	1,963,629,255	21,619,679,765
17	SC Purchased Power Capacity Costs	Line 15 * Line 16 /100	\$ 1,800,808	\$ 1,802,106	\$ 1,655,334	\$ 1,620,912	\$ 1,626,059	\$ 1,594,547	\$ 19,513,539
SC Capacity Related Costs Allocated on Firm CP kW's									
18	Residential	Total Line 17 * Line 1							\$ 8,216,300
19	General Service / Lighting	Total Line 17 * Line 2							\$ 5,451,018
20	Industrial	Total Line 17 * Line 3							\$ 5,846,221
21	Total SC	Sum Lines 18 through 20							\$ 19,513,539
Projected SC Retail Sales kWh									
22	Residential								6,412,992,614
23	General Service / Lighting								5,779,519,331
24	Industrial								9,427,167,820
25	Total SC	Sum Lines 22 through 24							21,619,679,765
SC Capacity Related Costs ¢/kWh									
26	Residential	Line 18 / Line 22 * 100							0.1281
27	General Service / Lighting	Line 19 / Line 23 * 100							0.0943
28	Industrial	Line 20 / Line 24 * 100							0.0620

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E
ACTUAL AND ESTIMATED DISTRIBUTED ENERGY RESOURCE PROGRAM INCREMENTAL AND AVOIDED COSTS
FOR THE PERIOD JUNE 2016 - SEPTEMBER 2017

Line No.	Description	Reference	Actual June 2016	Actual July 2016	Actual August 2016	Actual September 2016	Actual October 2016	Actual November 2016
<u>DERP Incremental Costs</u>								
1	Purchased Power Agreements		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2	DERP NEM Incentive		20,401	24,830	33,245	40,934	58,784	70,486
3	Solar Rebate Program		10,875	13,682	21,811	26,494	31,779	50,863
4	Shared Solar Program		-	-			\$ -	-
5	Carrying Costs on Deferred Amounts		9,354	12,326	17,591	24,544	29,182	41,454
6	NEM Avoided Capacity Costs		811	980	1,404	1,836	3,078	3,838
7	NEM Meter Costs		3,898	4,681	6,052	7,370	6,194	7,344
8	General and Administrative Expenses		102,184	113,704	101,872	101,341	92,650	110,617
9	Total DERP Incremental Costs	Sum Lines 1 through 8	\$ 147,523	\$ 170,203	\$ 181,975	\$ 202,519	\$ 221,667	\$ 284,602
10	Adjustments		\$ (381)	\$ (382)	\$ 804	\$ (226)	\$ (259)	\$ (290)
11	Adjusted DERP Incremental Costs	Line 9 + Line 10	\$ 147,142	\$ 169,821	\$ 182,779	\$ 202,293	\$ 221,408	\$ 284,312
<u>DERP Avoided Costs - Energy and Capacity</u>								
12	Purchased Power Agreements		\$ 175	\$ 240	\$ 225	\$ 206	\$ 203	\$ 151
13	Shared Solar Program							
14	Total DERP Avoided Costs	Line 12 + Line 13	\$ 175	\$ 240	\$ 225	\$ 206	\$ 203	\$ 151

Line No.	Description	Reference	Actual December 2016	Actual January 2017	Actual February 2017	Actual March 2017	Actual April 2017	Actual May 2017	Actual Twelve Months Ended May 2017
<u>DERP Incremental Costs</u>									
15	Purchased Power Agreements		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16	DERP NEM Incentive		77,323	99,006	112,891	126,087	148,502	160,559	973,048
17	Solar Rebate Program		59,445	75,897	87,288	124,213	133,327	144,275	779,948
18	Shared Solar Program		-	-	-	-	-	-	-
19	Carrying Costs on Deferred Amounts		55,304	67,759	81,557	105,752	128,573	137,090	710,485
20	NEM Avoided Capacity Costs		4,155	5,602	6,325	7,142	8,446	9,097	52,714
21	NEM Meter Costs		7,990	10,130	11,646	12,848	13,893	15,309	107,355
22	General and Administrative Expenses		75,327	168,442	115,338	45,335	121,271	110,289	1,258,370
23	Total DERP Incremental Costs	Sum Lines 15 through 22	\$ 279,544	\$ 426,836	\$ 415,045	\$ 421,377	\$ 554,012	\$ 576,619	\$ 3,881,921
24	Adjustments		\$ (417)	\$ (468)	\$ (487)	\$ (35,412)	\$ (53,527)	\$ (51,104)	\$ (142,149)
25	Adjusted DERP Incremental Costs	Line 23 + Line 24	\$ 279,127	\$ 426,368	\$ 414,558	\$ 385,965	\$ 500,485	\$ 525,515	\$ 3,739,772
<u>DERP Avoided Costs - Energy and Capacity</u>									
26	Purchased Power Agreements		\$ 132	\$ 76	\$ 75	\$ 190	\$ 166	\$ 26,079	\$ 27,916
27	Shared Solar Program						\$ -	\$ -	\$ -
28	Adjustments						\$ (2,740)	\$ (2,740)	\$ (2,740)
29	Total DERP Avoided Costs	Line 26 + Line 27	\$ 132	\$ 76	\$ 75	\$ 190	\$ 166	\$ 23,339	\$ 25,176

Line No.	Description	Reference	Estimated June 2017	Estimated July 2017	Estimated August 2017	Estimated September 2017	Estimated 4 months ended Sept 2017
<u>DERP Incremental Costs</u>							
30	Purchased Power Agreements		\$ -	\$ -	\$ -	\$ -	\$ -
31	DERP NEM Incentive		244,117	266,298	285,342	304,386	1,100,143
32	Solar Rebate Program		163,677	180,996	195,426	209,856	749,955
33	Shared Solar Program		-	-	-	-	-
34	Carrying Costs on Deferred Amounts		153,823	170,594	185,791	199,429	709,638
35	NEM Avoided Capacity Costs		11,317	13,127	14,761	16,401	55,606
36	NEM Meter Costs		16,802	18,371	19,638	20,918	75,729
37	General and Administrative Expenses		290,397	290,397	290,397	290,397	1,161,588
38	ORS Adjustments					(1,824,619)	(1,824,619)
39	Total DERP Incremental Costs	Sum Lines 29 through 36	\$ 880,133	\$ 939,783	\$ 991,355	\$ (783,232)	\$ 2,028,040
<u>DERP Avoided Costs - Energy and Capacity</u>							
40	Purchased Power Agreements		\$ 348	\$ 354	\$ 338	\$ 321	\$ 1,361
41	Shared Solar Program		-	-	-	-	-
42	Total DERP Avoided Costs	Line 38 + Line 39	\$ 348	\$ 354	\$ 338	\$ 321	\$ 1,361

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E
PROJECTED DISTRIBUTED ENERGY RESOURCE PROGRAM INCREMENTAL AND AVOIDED COSTS
FOR THE 12 MONTHS OCTOBER 1, 2017 TO SEPTEMBER 30, 2018

Line No.	Description	Reference	October 2017	November 2017	December 2017	January 2018	February 2018	March 2018
<u>DERP Incremental Costs</u>								
1	Purchased Power Agreements		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2	DERP NEM Incentive		228,571	242,771	256,972	257,884	285,372	300,781
3	Solar Rebate Program		224,286	235,509	246,733	256,353	265,973	265,973
4	Shared Solar Program		-	-	-	-	-	-
5	Carrying Costs on Deferred Amounts		212,986	224,822	234,955	244,206	252,582	255,988
6	NEM Avoided Capacity Costs		18,733	20,243	21,757	23,174	24,599	25,425
7	NEM Meter Costs		22,210	23,495	24,785	26,078	27,384	28,651
8	General and Administrative Expenses		220,397	220,397	220,397	99,307	99,307	99,307
9	Total DERP Incremental Costs	Sum Lines 1 through 8	\$ 927,183	\$ 967,237	\$ 1,005,599	\$ 907,001	\$ 955,216	\$ 976,124
<u>DERP Avoided Costs - Energy and Capacity</u>								
10	Purchased Power Agreements		\$ 337	\$ 273	\$ 232	\$ 269	\$ 275	\$ 315
11	Shared Solar Program		-	-	-	-	-	-
12	Total DERP Avoided Costs	Line 10 + Line 11	\$ 337	\$ 273	\$ 232	\$ 269	\$ 275	\$ 315

Line No.	Description	Reference	April 2018	May 2018	June 2018	July 2018	August 2018	September 2018	12 Month Total
<u>DERP Incremental Costs</u>									
13	Purchased Power Agreements		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
14	DERP NEM Incentive		325,081	336,854	336,758	336,661	336,578	336,494	3,580,776
15	Solar Rebate Program		265,973	265,973	265,973	265,973	265,973	265,973	3,090,662
16	Shared Solar Program		-	-	-	-	-	-	-
17	Carrying Costs on Deferred Amounts		254,478	252,968	251,457	249,947	248,437	246,927	2,929,752
18	NEM Avoided Capacity Costs		26,254	27,092	27,936	28,781	29,630	30,478	304,101
19	NEM Meter Costs		29,925	31,212	32,510	33,809	35,113	36,418	351,590
20	General and Administrative Expenses		99,307	99,307	99,307	99,307	99,307	99,307	1,554,950
21	ORS Adjustment			(3,671,717)					(3,671,717)
22	Total DERP Incremental Costs	Sum Lines 13 through 20	\$ 1,001,017	\$ (2,658,313)	\$ 1,013,941	\$ 1,014,477	\$ 1,015,036	\$ 1,015,596	\$ 8,140,114
<u>DERP Avoided Costs - Energy and Capacity</u>									
23	Purchased Power Agreements		\$ 365	\$ 358	\$ 346	\$ 352	\$ 336	\$ 320	\$ 3,779
24	Shared Solar Program		-	-	-	-	-	-	-
25	ORS Adjustment			23,339					23,339
26	Total DERP Avoided Costs	Line 22 + Line 23	\$ 365	\$ 23,697	\$ 346	\$ 352	\$ 336	\$ 320	\$ 27,118

DUKE ENERGY CAROLINAS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E
CALCULATION OF DERP INCREMENTAL (OVER) / UNDER RECOVERY - RESIDENTIAL
ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2016 - SEPTEMBER 2017

Line No.	2015 Firm Coincident Peak CP%		Residential		2016 Firm Coincident Peak CP %		Residential	
1			55.72%				42.11%	
Line No.	Description	Reference	Actual June 2016	Actual July 2016	Actual August 2016	Actual September 2016	Actual October 2016	Actual November 2016
2	Total DERP Incremental Costs	Exhibit 8	\$ 147,142	\$ 169,821	\$ 182,779	\$ 202,293	\$ 221,408	\$ 284,312
3	Incremental Costs Allocated to Residential Customers	Line 2 * Line 1	\$ 81,981	\$ 94,616	\$ 101,836	\$ 112,708	\$ 123,358	\$ 158,405
4	Revenue Collected		\$ 200,869	\$ 199,201	\$ 198,659	\$ 209,297	\$ 320,972	\$ 321,597
5	SC DERP Incremental - Residential Costs (Over) / Under Recovery	-Line 4 + Line 3	\$ (118,888)	\$ (104,585)	\$ (96,823)	\$ (96,589)	\$ (197,614)	\$ (163,192)
6	(Over) / Under Cumulative Balance - May 2016	Prior Year annual filing	\$ (1,042,844)					
7	Adjustment related to prior test period Over/ (Under)							
8	Cumulative SC Residential DERP Incremental Costs (Over) / Under Recovery	Prior Mo. Cum. Bal + Line 5 + Line 7	\$ (1,161,732)	\$ (1,266,317)	\$ (1,363,140)	\$ (1,459,729)	\$ (1,657,343)	\$ (1,820,535)

Line No.	Description	Reference	Actual December 2016	Actual January 2017	Actual February 2017	Actual March 2017	Actual April 2017	Actual May 2017	Actual Twelve Months Ended May 2017
9	Total DERP Incremental Costs	Exhibit 8	\$ 279,127	\$ 426,368	\$ 414,558	\$ 385,965	\$ 500,485	\$ 525,515	\$ 3,739,771.56
10	Incremental Costs Allocated to Residential Customers	Line 9 * Line 1	\$ 155,516	\$ 179,525	\$ 174,552	\$ 162,513	\$ 210,733	\$ 221,271	\$ 1,777,013.78
11	Revenue Collected		\$ 320,454	\$ 320,360	\$ 321,869	\$ 321,418	\$ 323,103	\$ 322,817	\$ 3,380,616
12	SC DERP Incremental - Residential Costs (Over) / Under Recovery	-Line 11 + Line 10	\$ (164,938)	\$ (140,835)	\$ (147,317)	\$ (158,905)	\$ (112,370)	\$ (101,546)	\$ (1,603,602)
13	Cumulative SC Residential DERP Incremental Costs (Over) / Under Recovery	Prior Mo. Cum. Bal + Line 12	\$ (1,985,473)	\$ (2,126,307)	\$ (2,273,624)	\$ (2,432,529)	\$ (2,544,899)	\$ (2,646,445)	\$ (2,646,446)

Line No.	Description	Reference	Estimated June 2017	Estimated July 2017	Estimated August 2017	Estimated September 2017
14	Total DERP Incremental Costs	Exhibit 8	\$ 880,133	\$ 939,783	\$ 991,355	\$ (783,232)
15	Incremental Costs Allocated to Residential Customers	Line 14 * Line 1	\$ 370,586	\$ 395,702	\$ 417,416	\$ (329,785)
16	Revenue Collected		\$ 320,162	\$ 320,431	\$ 320,701	\$ 320,972
17	SC DERP Incremental - Residential Costs (Over) / Under Recovery	-Line 16 + Line 15	\$ 50,424	\$ 75,270	\$ 96,715	\$ (650,756)
18	Cumulative SC Residential DERP Incremental Costs (Over) / Under Recovery	Prior Mo. Cum. Bal + Line 17	\$ (2,596,021)	\$ (2,520,750)	\$ (2,424,035)	\$ (3,074,794)
19	SC Projected Residential Accts Oct '17 - Sept'18					481,694
20	SC Residential DERP Incremental Annual Charge / (Credit) (\$ per account)	Line 18 / Line 19 * 100				(6.38)
21	SC Residential DERP Incremental Monthly Charge / (Credit) (\$ per account)	Line 20 / 12				(0.53)

	ORS	% to Total
Res	\$ (3,074,794)	68.3754%
GS	\$ (671,453)	14.9314%
Ind	\$ (750,680)	16.6932%
	\$ (4,496,927)	
	Company	% to Total
Res	\$ (3,074,794)	68.3755%
GS	\$ (671,453)	14.9314%
Ind	\$ (750,680)	16.6932%
	\$ (4,496,927)	

DUKE ENERGY CAROLINAS, LLC
SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E
CALCULATION OF DERP INCREMENTAL (OVER) / UNDER RECOVERY - GENERAL SERVICE
ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2016 - SEPTEMBER 2017

Line No.		2015 Firm Coincident Peak CP%	General Service	2016 Firm Coincident Peak CP %	General Service
1			20.89%		27.93%

Line No.	Description	Reference	Actual June 2016	Actual July 2016	Actual August 2016	Actual September 2016	Actual October 2016	Actual November 2016
2	Total DERP Incremental Costs	Exhibit 8	\$ 147,142	\$ 169,821	\$ 182,779	\$ 202,293	\$ 221,408	\$ 284,312
3	Incremental Costs Allocated to General Service	Line 2 * Line 1	\$ 30,744	\$ 35,482	\$ 38,190	\$ 42,267	\$ 46,261	\$ 59,404
4	Revenue Collected		\$ 68,023	\$ 68,239	\$ 68,043	\$ 74,613	\$ 129,842	\$ 129,628
5	SC DERP Incremental - General Service Costs (Over) / Under Recovery	-Line 4 + Line 3	\$ (37,279)	\$ (32,757)	\$ (29,853)	\$ (32,346)	\$ (83,581)	\$ (70,224)
6	(Over) / Under Cumulative Balance - May 2016	Prior Year annual filing	\$ (327,955)					
7	Adjustment related to prior test period (Over)/ Under							
8	Cumulative SC General Service DERP Incremental Costs (Over) / Under Recovery	Prior Mo. Cum. Bal + Line 5	\$ (365,234)	\$ (397,991)	\$ (427,844)	\$ (460,190)	\$ (543,771)	\$ (613,995)

Line No.	Description	Reference	Actual December 2016	Actual January 2017	Actual February 2017	Actual March 2017	Actual April 2017	Actual May 2017	Actual Twelve Months Ended May 2017
9	Total DERP Incremental Costs	Exhibit 8	\$ 279,127	\$ 426,368	\$ 414,558	\$ 385,965	\$ 500,485	\$ 525,515	\$ 3,739,771.56
10	Incremental Costs Allocated to General Service	Line 9 * Line 1	\$ 58,321	\$ 119,104	\$ 115,805	\$ 107,817	\$ 139,808	\$ 146,800	\$ 940,003.27
11	Revenue Collected		\$ 130,331	\$ 130,574	\$ 130,386	\$ 130,647	\$ 131,560	\$ 131,633	\$ 1,323,519.00
12	SC DERP Incremental - General Service Costs (Over) / Under Recovery	-Line 11 + Line 10	\$ (72,010)	\$ (11,470)	\$ (14,581)	\$ (22,830)	\$ 8,248	\$ 15,167	\$ (383,516)
13	Cumulative SC General Service DERP Incremental Costs (Over) / Under Recovery	Prior Mo. Cum. Bal + Line 12	\$ (686,005)	\$ (697,476)	\$ (712,057)	\$ (734,886)	\$ (726,638)	\$ (711,471)	\$ (711,471)

Line No.	Description	Reference	Estimated June 2017	Estimated July 2017	Estimated August 2017	Estimated September 2017
14	Total DERP Incremental Costs	Exhibit 8	\$ 880,133	\$ 939,783	\$ 991,355	\$ (783,232)
15	Incremental Costs Allocated to General Service	Line 14 * Line 1	\$ 245,861	\$ 262,524	\$ 276,930	\$ (218,792)
16	Revenue Collected		\$ 131,452	\$ 131,563	\$ 131,708	\$ 131,785
17	SC DERP Incremental - General Service Costs (Over) / Under Recovery	-Line 16 + Line 15	\$ 114,410	\$ 130,961	\$ 145,223	\$ (350,577)
18	Cumulative SC General Service DERP Incremental Costs (Over) / Under Recovery	Prior Mo. Cum. Bal + Line 17	\$ (597,061)	\$ (466,100)	\$ (320,877)	\$ (671,453)
19	SC Projected General Service Accts Oct'17 - Sept'18					72,290
20	SC General Service DERP Incremental Annual Charge / (Credit) (\$ per account)	Line 18 / Line 19 * 100				(9.29)
21	SC General Service DERP Incremental Monthly Charge / (Credit) (\$ per account)	Line 20 / 12				(0.77)

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E
CALCULATION OF DERP INCREMENTAL (OVER) / UNDER RECOVERY - INDUSTRIAL
ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2016 - SEPTEMBER 2017

Line No.		2015 Firm Coincident Peak CP%	Industrial 23.39%	2016 Firm Coincident Peak CP %		Industrial 29.96%
1						

Line No.	Description	Reference	Actual June 2016	Actual July 2016	Actual August 2016	Actual September 2016	Actual October 2016	Actual November 2016
2	Total DERP Incremental Costs	Exhibit 8	\$ 147,142	\$ 169,821	\$ 182,779	\$ 202,293	\$ 221,408	\$ 284,312
3	Incremental Costs Allocated to Industrial Customers	Line 2 * Line 1	\$ 34,418	\$ 39,722	\$ 42,753	\$ 47,318	\$ 51,789	\$ 66,502
4	Revenue Collected		\$ 92,805	\$ 92,514	\$ 93,020	\$ 95,005	\$ 125,825	\$ 125,232
5	SC DERP Incremental - Industrial Costs (Over) / Under Recovery	-Line 4 + Line 3	\$ (58,387)	\$ (52,792)	\$ (50,267)	\$ (47,687)	\$ (74,036)	\$ (58,729)
6	(Over) / Under Cumulative Balance - May 2016	Prior Year annual filing	\$ (496,399)					
7	Adjustment related to prior test period (Over) / Under							
8	Cumulative SC Industrial DERP Incremental Costs (Over) / Under Recovery	Prior Mo. Cum. Bal + Line 5 + Line 7	\$ (554,786)	\$ (607,578)	\$ (657,845)	\$ (705,532)	\$ (779,568)	\$ (838,297)

Line No.	Description	Reference	Actual December 2016	Actual January 2017	Actual February 2017	Actual March 2017	Actual April 2017	Actual May 2017	Actual Twelve Months Ended May 2017
9	Total DERP Incremental Costs	Exhibit 8	\$ 279,127	\$ 426,368	\$ 414,558	\$ 385,965	\$ 500,485	\$ 525,515	\$ 3,739,771.56
10	Incremental Costs Allocated to Industrial Customers	Line 9 * Line 1	\$ 65,290	\$ 127,739	\$ 124,201	\$ 115,634	\$ 149,945	\$ 157,443	\$ 1,022,753.51
11	Revenue Collected		\$ 126,165	\$ 127,305	\$ 126,179	\$ 124,879	\$ 130,524	\$ 123,113	\$ 1,382,566.00
12	SC DERP Incremental - Industrial Costs (Over) / Under Recovery	-Line 11 + Line 10	\$ (60,875)	\$ 434	\$ (1,978)	\$ (9,245)	\$ 19,421	\$ 34,330	\$ (359,812)
13	Cumulative SC Industrial DERP Incremental Costs (Over) / Under Recovery	Prior Mo. Cum. Bal + Line 12	\$ (899,172)	\$ (898,738)	\$ (900,717)	\$ (909,961)	\$ (890,541)	\$ (856,210)	\$ (856,211)

Line No.	Description	Reference	Estimated June 2017	Estimated July 2017	Estimated August 2017	Estimated September 2017
14	Total DERP Incremental Costs	Exhibit 8	\$ 880,133	\$ 939,783	\$ 991,355	\$ (783,232)
15	Incremental Costs Allocated to Industrial Customers	Line 14 * Line 1	\$ 263,686	\$ 281,557	\$ 297,008	\$ (234,655)
16	Revenue Collected		\$ 125,780	\$ 125,618	\$ 125,355	\$ 125,314
17	SC DERP Incremental - Industrial Costs (Over) / Under Recovery	-Line 16 + Line 15	\$ 137,906	\$ 155,939	\$ 171,653	\$ (359,969)
18	Cumulative SC Industrial DERP Incremental Costs (Over) / Under Recovery	Prior Mo. Cum. Bal + Line 17	\$ (718,304)	\$ (562,365)	\$ (390,712)	\$ (750,680)
19	SC Projected Industrial Accts Oct'17 - Sept'18					1,548
20	SC Industrial DERP Incremental Annual Charge / (Credit) (\$ per account)	Line 18 / Line 19 * 100				(484.94)
21	SC Industrial DERP Incremental Monthly Charge / (Credit) (\$ per account)	Line 20 / 12				(40.41)

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E
PROJECTED BILLING PERIOD INCREMENTAL COSTS FACTORS FOR DERP COSTS
FOR THE BILLING PERIOD OCTOBER 2017 - SEPTEMBER 2018

		Total Incremental Costs
1 Total DERP Projected Incremental Costs	Exhibit 9 Line 21	\$ 8,140,114

Allocation of DERP Incremental Costs for October 2017 - September 2018	Firm Peak Demand - 2016	Total Incremental Costs	Cost Allocated per Firm Peak Demand
2 Residential	42.11%		\$ 3,427,447
3 General	27.93%		2,273,904
4 Industrial	29.96%		2,438,763
5 Total	100.00%	\$ 8,140,114	\$ 8,140,114

	Total Cost Allocated per Firm Peak Demand	Projected Number of Accounts in Billing Period	\$ per Account per Year	\$ per Account per Month
6 Residential	\$ 3,427,447	481,694	\$ 7.12	\$ 0.59
7 General	2,273,904	72,290	\$ 31.46	\$ 2.62
8 Industrial	2,438,763	1,548	\$ 1,575.43	\$ 131.29
9 Total	\$ 8,140,114	555,532		

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E
CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - RESIDENTIAL
ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2016 - SEPTEMBER 2017

Line No.	2015 Firm Coincident Peak CP%			Residential 55.72%		2016 Firm Coincident Peak CP %			Residential 42.11%	
Line No.	Description	Reference	Actual June 2016	Actual July 2016	Actual August 2016	Actual September 2016	Actual October 2016	Actual November 2016		
2	Total DERP Avoided Costs	Exhibit 8	\$ 175	\$ 240	\$ 225	\$ 206	\$ 203	\$ 151		
3	Total System kWh Sales		7,455,726,890	8,307,694,616	8,677,344,922	8,552,471,343	6,764,677,741	6,211,342,842		
4	DERP Avoided System Cost - (c/kWh)	Line 2 / Line 3* 100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
5	SC Retail Sales kWh		1,887,390,782	2,087,423,823	2,120,919,285	2,102,065,009	1,732,875,422	1,592,728,183		
6	SC DERP Avoided Costs	Line 4 * Line 5 / 100	\$ 44	\$ 61	\$ 55	\$ 51	\$ 52	\$ 39		
7	Residential DERP Avoided Costs Allocated by Firm CP	Line 6 * Line 1	\$ 25	\$ 34	\$ 31	\$ 28	\$ 29	\$ 22		
8	SC Residential kWh Sales		570,961,439	735,458,585	717,753,691	680,714,851	461,347,690	383,296,175		
9	SC Residential DERP Avoided Cost (c/kWh)	Line 7 / Line 8 * 100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
10	SC Residential Rate Billed (c/kWh)	Company Records	0.0035	0.0035	0.0035	0.0035	(0.0021)	(0.0021)		
11	SC DERP Avoided Cost (Over) / Under Recovery	(-Line 10 + Line 9) * Line 8/100	\$ (19,959)	\$ (25,707)	\$ (25,090)	\$ (23,797)	\$ 9,717	\$ 8,071		
12	(Over) / Under Cumulative Balance May 2016	Prior Year Annual Filing	\$ (132,371)							
13	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 11 + prior Month Cum Bal	\$ (152,330)	\$ (178,038)	\$ (203,128)	\$ (226,925)	\$ (217,207)	\$ (209,137)		
Line No.	Description	Reference	Actual December 2016	Actual January 2017	Actual February 2017	Actual March 2017	Actual April 2017	Actual May 2017	Actual Twelve Months Ended May 2017	
14	Total DERP Avoided Costs	Exhibit 8	\$ 132	\$ 76	\$ 75	\$ 190	\$ 166	\$ 23,339	\$ 25,176	
15	Total System kWh Sales		6,894,316,081	7,535,755,155	6,552,001,704	6,356,251,191	7,138,821,692	5,896,556,967	86,342,961,144	
16	DERP Avoided System Cost - (c/kWh)	Line 14 / Line 15* 100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0004		
17	SC Retail Sales kWh		1,681,764,571	1,778,680,433	1,639,883,558	1,558,321,115	1,828,831,145	1,438,093,127	21,448,976,453	
18	SC DERP Avoided Costs	Line 16 * Line 17 / 100	\$ 33	\$ 18	\$ 19	\$ 47	\$ 43	\$ 5,693	\$ 6,154	
19	Residential DERP Avoided Costs Allocated by Firm CP	Line 18 * Line 1	\$ 18	\$ 8	\$ 8	\$ 20	\$ 18	\$ 2,397		
20	SC Residential kWh Sales		534,532,734	628,131,532	470,566,761	446,967,516	423,024,062	410,542,820	6,463,297,856	
21	SC Residential DERP Avoided Cost (c/kWh)	Line 19 / Line 20 * 100	0	0	0	0	0	0		
22	SC Residential Rate Billed (c/kWh)	Company Records	(0.0021)	(0.0021)	(0.0021)	(0.0021)	(0.0021)	(0.0021)		
23	SC DERP Avoided Cost (Over) / Under Recovery	(-Line 22 + Line 21) * Line 20/100	\$ 11,243	\$ 13,199	\$ 9,890	\$ 9,406	\$ 8,902	\$ 11,017		
24	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 23 + prior Month Cum Bal	\$ (197,894)	\$ (184,695)	\$ (174,805)	\$ (165,399)	\$ (156,496)	\$ (145,480)		
Line No.	Description	Reference	Estimated June 2017	Estimated July 2017	Estimated August 2017	Estimated September 2017				
25	Total DERP Avoided Costs	Exhibit 8	\$ 348	\$ 354	\$ 338	\$ 321				
26	Total Projected System Sales kwhs (w/solar)		7,383,785,715	8,180,077,468	8,426,978,637	7,812,040,037				
27	DERP Avoided System Cost - (c/kWh)	Line 25 / Line 26* 100	0.0000	0.0000	0.0000	0.0000				
28	Projected SC Retail Sales kWh		1,833,008,015	1,979,028,011	2,069,753,324	1,953,133,647				
29	SC DERP Avoided Costs	Line 27 * Line 28 / 100	\$ 86	\$ 86	\$ 83	\$ 80				
30	Residential DERP Avoided Costs Allocated by Firm CP	Line 29 * Line 1	\$ 36	\$ 36	\$ 35	\$ 34				
31	SC Projected Residential kWh Sales		500,019,204	633,199,258	646,309,682	557,019,865				
32	SC Residential DERP Avoided Cost (c/kWh)	Line 30 / Line 31 * 100	0.0000	0.0000	0.0000	0.0000				
33	SC Residential Rate Billed (c/kWh)	Company Records	(0.0021)	(0.0021)	(0.0021)	(0.0021)				
34	SC DERP Avoided Cost (Over) / Under Recovery	(-Line 33 + Line 32) * Line 31/100	\$ 10,537	\$ 13,333	\$ 13,607	\$ 11,731				
35	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 34 + prior Month Cum Bal	\$ (134,943)	\$ (121,609)	\$ (108,002)	\$ (96,270)				
36	SC Projected Residential Sales (October 2017-September 2018)					6,412,992,614				
37	SC Residential DERP AC Increment / (Decrement) (c/kWh)	Line 35 / Line 36* 100				(0.0015)				

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E

CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - GENERAL SERVICE / LIGHTING
ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2016 - SEPTEMBER 2017

Line No.	2015 Firm Coincident Peak CP%	General Service / Lighting	2016 Firm Coincident Peak CP %	General Service / Lighting
1		20.89%		27.93%

Line No.	Description	Reference	Actual June 2016	Actual July 2016	Actual August 2016	Actual September 2016	Actual October 2016	Actual November 2016
2	Total DERP Avoided Costs	Exhibit 8	\$ 175	\$ 240	\$ 225	\$ 206	\$ 203	\$ 151
3	Total System kWh Sales		7,455,726,890	8,307,694,616	8,677,344,922	8,552,471,343	6,764,677,741	6,211,342,842
4	DERP Avoided System Cost - (c/kWh)	Line 2 / Line 3* 100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
5	SC Retail Sales kWh		1,887,390,782	2,087,423,823	2,120,919,285	2,102,065,009	1,732,875,422	1,592,728,183
6	SC DERP Avoided Costs	Line 4 * Line 5 / 100	\$ 44	\$ 61	\$ 55	\$ 51	\$ 52	\$ 39
7	General Service/Lighting DERP Avoided Costs Allocated by Firm CP	Line 6 * Line 1	\$ 9	\$ 13	\$ 11	\$ 11	\$ 11	\$ 8
8	SC General Service/Lighting kWh Sales		519,803,344	572,605,939	574,744,299	597,836,818	486,023,443	430,790,094
9	SC General Service/Lighting DERP Avoided Cost (c/kWh)	Line 7 / Line 8 * 100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
10	SC General Service/Lighting Rate Billed (c/kWh)	Company Records	0.0016	0.0016	0.0016	0.0016	(0.0011)	(0.0011)
11	SC DERP Avoided Cost (Over) / Under Recovery	(-Line 10 + Line 9) * Line 8/100	\$ (8,308)	\$ (9,149)	\$ (9,185)	\$ (9,554)	\$ 5,357	\$ 4,747
12	(Over) / Under Cumulative Balance May 2016	Prior Year Annual Filing	\$ (56,607)					
13	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 11 + prior Month Cum Bal	\$ (64,914)	\$ (74,063)	\$ (83,249)	\$ (92,802)	\$ (87,445)	\$ (82,698)

Line No.	Description	Reference	Actual December 2016	Actual January 2017	Actual February 2017	Actual March 2017	Actual April 2017	Actual May 2017	Actual Twelve Months Ended May 2017
14	Total DERP Avoided Costs	Exhibit 8	\$ 132	\$ 76	\$ 75	\$ 190	\$ 166	\$ 23,339	\$ 25,176
15	Total System kWh Sales		6,894,316,081	7,535,755,155	6,552,001,704	6,356,251,191	7,138,821,692	5,896,556,967	86,342,961,144
16	DERP Avoided System Cost - (c/kWh)	Line 14 / Line 15* 100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0004	
17	SC Retail Sales kWh		1,681,764,571	1,778,680,433	1,639,883,558	1,558,321,115	1,828,831,145	1,438,093,127	21,448,976,453
18	SC DERP Avoided Costs	Line 16 * Line 17 / 100	\$ 33	\$ 18	\$ 19	\$ 47	\$ 43	\$ 5,693	6,154
19	General Service/Lighting DERP Avoided Costs Allocated by Firm CP	Line 18 * Line 1	\$ 7	\$ 5	\$ 5	\$ 13	\$ 12	\$ 1,590	
20	SC General Service/Lighting kWh Sales		434,785,982	457,768,996	420,455,715	412,288,547	456,181,407	433,395,497	5,796,680,081
21	SC General Service/Lighting DERP Avoided Cost (c/kWh)	Line 19 / Line 20 * 100	0	0	0	0	0	0.0004	
22	SC General Service/Lighting Rate Billed (c/kWh)	Company Records	(0.0011)	(0.0011)	(0.0011)	(0.0011)	(0.0011)	(0.0011)	
23	SC DERP Avoided Cost (Over) / Under Recovery	(-Line 22 + Line 21) * Line 20/100	\$ 4,790	\$ 5,040	\$ 4,630	\$ 4,548	\$ 5,030	\$ 6,358	
24	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 23 + prior Month Cum Bal	\$ (77,909)	\$ (72,868)	\$ (68,238)	\$ (63,690)	\$ (58,660)	\$ (52,302)	

Line No.	Description	Reference	Estimated June 2017	Estimated July 2017	Estimated August 2017	Estimated September 2017
25	Total DERP Avoided Costs	Exhibit 8	\$ 348	\$ 354	\$ 338	\$ 321
26	Total Projected System Sales kwhs (w/solar)		7,383,785,715	8,180,077,468	8,426,978,637	7,812,040,037
27	DERP Avoided System Cost - (c/kWh)	Line 25 / Line 26* 100	0.0000	0.0000	0.0000	0.0000
28	Projected SC Retail Sales kWh		1,833,008,015	1,979,028,011	2,069,753,324	1,953,133,647
29	SC DERP Avoided Costs	Line 27 * Line 28 / 100	\$ 86	\$ 86	\$ 83	\$ 80
30	General Service/Lighting DERP Avoided Costs Allocated by Firm CP	Line 29 * Line 1	\$ 24	\$ 24	\$ 23	\$ 22
31	SC General Service/Lighting kWh Sales		511,806,562	548,174,397	558,352,829	549,181,780
32	SC General Service/Lighting DERP Avoided Cost (c/kWh)	Line 30 / Line 31 * 100	0.0000	0.0000	0.0000	0.0000
33	SC General Service/Lighting Rate Billed (c/kWh)	Company Records	(0.0011)	(0.0011)	(0.0011)	(0.0011)
34	SC DERP Avoided Cost (Over) / Under Recovery	(-Line 33 + Line 32) * Line 31/100	\$ 5,654	\$ 6,054	\$ 6,165	\$ 6,063
35	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 34 + prior Month Cum Bal	\$ (46,648)	\$ (40,595)	\$ (34,430)	\$ (28,366)
36	SC Projected General Service / Lighting Sales October 2017 - September 2018					5,779,519,331
37	SC Residential DERP AC Increment / (Decrement) (c/kWh)	Line 35 / Line 36* 100				(0.0005)

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E

CALCULATION OF DERP AVOIDED COST (OVER) / UNDER RECOVERY - INDUSTRIAL
ACTUAL AND ESTIMATED COSTS AND REVENUES JUNE 2016 - SEPTEMBER 2017

Line No.	2015 Firm Coincident Peak CP%			Industrial 23.39%		2016 Firm Coincident Peak CP %			Industrial 29.96%	
Line No.	Description	Reference	Actual June 2016	Actual July 2016	Actual August 2016	Actual September 2016	Actual October 2016	Actual November 2016		
2	Total DERP Avoided Costs	Exhibit 8	\$ 175	\$ 240	\$ 225	\$ 206	\$ 203	\$ 151		
3	Total System kWh Sales		7,455,726,890	8,307,694,616	8,677,344,922	8,552,471,343	6,764,677,741	6,211,342,842		
4	DERP Avoided System Cost - (¢/kWh)	Line 2 / Line 3* 100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
5	SC Retail Sales kWh		1,887,390,782	2,087,423,823	2,120,919,285	2,102,065,009	1,732,875,422	1,592,728,183		
6	SC DERP Avoided Costs	Line 4 * Line 5 / 100	\$ 44	\$ 61	\$ 55	\$ 51	\$ 52	\$ 39		
7	Industrial DERP Avoided Costs Allocated by Firm CP	Line 6 * Line 1	\$ 10	\$ 14	\$ 13	\$ 12	\$ 12	\$ 9		
8	SC Industrial kWh Sales		796,625,999	779,359,299	828,421,295	823,513,340	785,504,289	778,641,914		
9	SC Industrial DERP Avoided Cost (¢/kWh)	Line 7 / Line 8 * 100	0.0000	0.0000	0.0000	0.0000	0	0		
10	SC Industrial Rate Billed (¢/kWh)	Company Records	0.0013	0.0013	0.0013	0.0013	(0.0013)	(0.0013)		
11	SC DERP Avoided Cost (Over) / Under Recovery	(-Line 10 + Line 9) * Line 8/100	\$ (10,346)	\$ (10,118)	\$ (10,756)	\$ (10,694)	\$ 10,224	\$ 10,131		
12	(Over) / Under Cumulative Balance May 2016	Prior Year Annual Filing	\$ (74,665)							
13	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 11 + prior Month Cum Bal	\$ (85,011)	\$ (95,129)	\$ (105,885)	\$ (116,579)	\$ (106,355)	\$ (96,224)		
Line No.	Description	Reference	Actual December 2016	Actual January 2017	Actual February 2017	Actual March 2017	Actual April 2017	Actual May 2017	Actual Twelve Months Ended May 2017	
14	Total DERP Avoided Costs	Exhibit 8	\$ 132	\$ 76	\$ 75	\$ 190	\$ 166	\$ 23,339	\$ 25,176	
15	Total System kWh Sales		6,894,316,081	7,535,755,155	6,552,001,704	6,356,251,191	7,138,821,692	5,896,556,967	86,342,961,144	
16	DERP Avoided System Cost - (¢/kWh)	Line 14 / Line 15* 100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0004		
17	SC Retail Sales kWh		1,681,764,571	1,778,680,433	1,639,883,558	1,558,321,115	1,828,831,145	1,438,093,127	21,448,976,453	
18	SC DERP Avoided Costs	Line 16 * Line 17 / 100	\$ 33	\$ 18	\$ 19	\$ 47	\$ 43	\$ 5,693	6,154	
19	Industrial DERP Avoided Costs Allocated by Firm CP	Line 18 * Line 1	\$ 8	\$ 5	\$ 6	\$ 14	\$ 13	\$ 1,706		
20	SC Industrial kWh Sales		712,445,855	692,779,905	748,861,082	699,065,052	949,625,676	594,154,810	9,188,998,516	
21	SC Industrial DERP Avoided Cost (¢/kWh)	Line 19 / Line 20 * 100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0003		
22	SC Industrial Rate Billed (¢/kWh)	Company Records	(0.0013)	(0.0013)	(0.0013)	(0.0013)	(0.0013)	(0.0013)		
23	SC DERP Avoided Cost (Over) / Under Recovery	(-Line 22 + Line 21) * Line 20/100	\$ 9,270	\$ 9,011	\$ 9,741	\$ 9,102	\$ 12,358	\$ 9,430		
24	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 23 + prior Month Cum Bal	\$ (86,954)	\$ (77,944)	\$ (68,203)	\$ (59,101)	\$ (46,743)	\$ (37,313)		
Line No.	Description	Reference	Estimated June 2017	Estimated July 2017	Estimated August 2017	Estimated September 2017				
25	Total DERP Avoided Costs	Exhibit 8	\$ 348	\$ 354	\$ 338	\$ 321				
26	Total System kWh Sales		7,383,785,715	8,180,077,468	8,426,978,637	7,812,040,037				
27	DERP Avoided System Cost - (¢/kWh)	Line 25 / Line 26* 100	0.0000	0.0000	0.0000	0.0000				
28	Projected SC Retail Sales kWh		1,833,008,015	1,979,028,011	2,069,753,324	1,953,133,647				
29	SC DERP Avoided Costs	Line 27 * Line 28 / 100	\$ 86	\$ 86	\$ 83	\$ 80				
30	Industrial DERP Avoided Costs Allocated by Firm CP	Line 29 * Line 1	\$ 26	\$ 26	\$ 25	\$ 24				
31	SC Industrial kWh Sales		821,182,249	797,654,356	865,090,814	846,932,002				
32	SC Industrial DERP Avoided Cost (¢/kWh)	Line 30 / Line 31 * 100	0.0000	0.0000	0.0000	0.0000				
33	SC Industrial Rate Billed (¢/kWh)	Company Records	(0.0013)	(0.0013)	(0.0013)	(0.0013)				
34	SC DERP Avoided Cost (Over) / Under Recovery	(-Line 33 + Line 32) * Line 31/100	\$ 10,701	\$ 10,395	\$ 11,271	\$ 11,034				
35	Cumulative SC DERP Avoided Cost (Over) / Under Recovery	Line 34 + prior Month Cum Bal	\$ (26,612)	\$ (16,217)	\$ (4,946)	\$ 6,088				
36	SC Projected Industrial Sales October 2017 - September 2018					9,427,167,820				
37	SC Industrial DERP AC Increment / (Decrement) (¢/kWh)					0.0001				

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E
PROJECTED BILLING PERIOD DERP AVOIDED COSTS
FOR THE 12 MONTHS ENDING OCTOBER 1, 2017 TO SEPTEMBER 30, 2018

Line No.	Class	2016 Firm Coincident Peak (CP) KWs	CP %
1	Residential	1,803,958	42.11%
2	General Service / Lighting	1,196,817	27.93%
3	Industrial	1,283,587	29.96%
	Total SC	4,284,362	100%

Line No.	Description	Reference	October 2017	November 2017	December 2017	January 2018	February 2018	March 2018
4	Total DERP Avoided Costs	Exhibit 9	\$ 337	\$ 273	\$ 232	\$ 269	\$ 275	\$ 315
5	Total Projected System Sales kwhs (w/solar)		6,398,225,896	6,307,340,529	7,085,330,923	8,005,281,104	7,575,678,258	6,838,011,278
6	DERP Avoided System Cost - (¢/kWh)	Line 4 / Line 5 * 100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
7	Projected SC Retail Sales kWh		1,639,702,185	1,610,567,953	1,736,894,910	1,888,371,507	1,860,349,263	1,712,803,907
8	SC DERP Avoided Costs	Line 6 * Line 7 /100	\$ 86	\$ 70	\$ 57	\$ 64	\$ 68	\$ 79

Line No.	Description	Reference	April 2018	May 2018	June 2018	July 2018	August 2018	September 2018	12 Month Total
9	Total DERP Avoided Costs	Exhibit 9	\$ 365	\$ 23,697	\$ 346	\$ 352	\$ 336	\$ 320	\$ 27,118
10	Total Projected System Sales kwhs (w/solar)		6,601,396,828	6,388,774,083	7,478,721,604	8,297,492,355	8,527,103,187	7,896,876,161	87,400,232,205
11	DERP Avoided System Cost - (¢/kWh)	Line 9 / Line 10 *100	0.0000	0.0004	0.0000	0.0000	0.0000	0.0000	
12	Projected SC Retail Sales kWh		1,668,479,463	1,620,979,444	1,844,099,703	1,993,038,096	2,080,764,079	1,963,629,255	21,619,679,765
13	SC DERP Avoided Costs	Line 11 * Line 12 /100	\$ 92	\$ 6,013	\$ 92	\$ 80	\$ 83	\$ 79	\$ 6,861
SC DERP Avoided Cost Allocated on Firm CP kW's									
14	Residential	Total Line 13 * Line 1							\$ 2,889
15	General Service / Lighting	Total Line 13 * Line 2							\$ 1,917
16	Industrial	Total Line 13 * Line 3							\$ 2,056
17	Total SC	Sum Lines 14 through 16							\$ 6,861
Projected SC Retail Sales kWh									
18	Residential								6,412,992,614
19	General Service / Lighting								5,779,519,331
20	Industrial								9,427,167,820
21	Total SC	Sum Lines 18 through 20							21,619,679,765
SC DERP Avoided Cost ¢/kWh									
22	Residential	Line 14 / Line 18 * 100							0.0000
23	General Service / Lighting	Line 15 / Line 19 * 100							0.0000
24	Industrial	Line 16 / Line 20 * 100							0.0000

McGee Settlement Exhibit 14
DOCKET NO 2017-3-E

DUKE ENERGY CAROLINAS, LLC

SOUTH CAROLINA RETAIL FUEL CASE
DOCKET NO 2017-3-E
DERP NEM INCENTIVE CALCULATION

Line No.	Description	Reference	Residential (Rate Schedule SCRS)	General Service (Rate Schedule SCLGS)
1	Representative NEM Customer bill without solar		\$ 1,454.15	\$ 35,537.63
2	Representative NEM Customer bill With solar		\$ 965.38	\$ 27,494.60
3	Difference	Line 1 - 2	\$ 488.77	\$ 8,043.03
4	Representative annual solar production kWhs		4,672	118,440
5	Value of solar in dollars per kWh	Proposed	0.05300	0.05298
6	Net Benefits delivered by solar production	Line 4 * 5	\$ 247.60	\$ 6,275.43
7	Under-recovered revenue from NEM Customer	Line 3 - 6	\$ 241.17	\$ 1,767.60
8	Annual solar production kWhs	Line 4	4,672	118,440
9	DERP NEM Incentive in dollars per kWh	Line 7 / Line 8	\$ 0.05162	\$ 0.01492